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ADMINISTRATION REPORT

FOR

1918-19.

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ADMINISTRATION REPORT FOR THE YEAR 1918-19.

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1912-1913 7,461,251 968,130 8,429, 1913-1914 7,351,721 971,743 8,323, 1914-1915 7,883,628 1,079,413 8,963, 1915-1916 7,982,532 902,279 8,884, 1916-1917 8,493,867 1,085,937 9,579, 1917-1918 7,986,358 1,077,513 9,063,		•	•••			1 .	8,331,592	
1913-1914 7,351,721 971,743 8,323, 1914-1915 7,883,628 1,079,413 8,963, 1915-1916 7,982,532 902,279 8,884, 1916-1917 8,493,867 1,085,957 9,579, 1917-1918 7,986,358 1,077,513 9,063,			·	•••		1	8,429,381	
1914-1915 7,883,628 1,079,413 8,963, 1915-1916 7,982,532 902,279 8,884, 1916-1917 8,493,867 1,085,957 9,579, 1917-1918 7,986,358 1,077,513 9,063,			•••		1	1	8,323,461	
1915-1916 7,952,532 902,279 8,684, 1916-1917 8,493,867 1,055,937 9,579, 1917-1918 7,956,358 1,077,513 9,063,			•••			1 1	8,963,011	
1916-1917 8,493,867 1,085,957 9,579, 1917-1918 7,986,858 1,077,513 9,063,			•••	•		1	8,684,611	
1917-1918 7,986,358 1,077,513 9,063,						1	9,579,824	
							9,063,901	
1918-1919 8,348,146 667,838 9,015,						1 1	9,015,984	

From 1894-95 to 1905-06 the total areas shown are net, thereafter the areas are gross.

The areas include the Swat River Canal up to 1900-01, after which date the canal was ransferred to the North-West Frontier Province.

PUNJAB CANALS, MAJOR WORKS.

		Area I	RRIGATED, IN	ACRES.	
YEAR.		Kharif.	Rabi.	Total .	Rehards.
1887-1888	•••	. 645,846	776,929	1,422,775	Lower Chenab Canal opened.
1828-1889	•••	715,632	1,034,325	1,749,957	
1889-1890	**1	661,677	1,201,779	1,863,456	
1890-1891		757,535	1,275,965	2,0 33,500	-
1891-1892	•••	697,454	1,446,938	2,144,392	Sirsa Branch of Western Jumpa Canal opened.
1892-1993	•••	323,235.	1,024,647	1,847,882	Decrease due entirely to the favourable winter rains of 1892-93 which greatly
1893-1894	- •••	711,001	1,192,653	1,903,654	contracted the irrigated rabi area. Decrease as compared with 1891-92 dae to general rainfall in rabi 1893-94, and would have been greater but for new
1694-1895	•••	703,930	1,151,928	1,655,558	irrigation on Chenab Canal. Decrease due to very favourable rainfall during rabi, particularly in Sirhind and Western Jumus Canal tracts.
1595-1896	•••	985,827	1,866,556	2,852,363	Increase chiefly due to partial failure of rains of 1805 and subsequent drought.
1896-1897		1,534,969	2,114,334	3,649,803	Increase due te drought.
1897-1898	••	1,777,565	2,275,724	4,053,289	Increase due to favourable year for irrigation and extensions.
1898-1899	•••	1,413,822	2,458,679	3,872,501	Decrease in kharif due to favourable state of rivers and scanty rainfall.
1699-1900	·	1,888,898	2,496,574	4,384,972	,
1900-1901	•••	2,354,174	2,288,678	4,642,852	
1901-1962	447	1,686,043	2,805,795	4,491,838	Lower Jhelum Canal opened.
1902-1903	•••	2,071,363	2,792,911	4,864,274	The Upper Sutlej Inundation Canals were transferred from head "Minor Works" to "Major Works" from 1st April 1902.
1903-1904	`	2,450,789	3,160,048	5,610,787	The Indus Inundation Canals were transferred from head "Miner Works" to "Major Works" from 1st April 1903.
1904-1905	<i>;</i>	2,381,786	3,307,346	5,699,132	
1905-1906	•••	2,294,460	3,668,911	6,163,871	Decrease in kharif due to cotton failure.
190G-1907	•••	2,435,219	3,467,776	5,902,995	•
1907-1908	•••	2,226,291	3,289,095	5,515,386	Decrease due to abnormally low supplies in the rivers.
1908-1909	***	2,695,518	3,699,532	6,385,050	
1909-1910	•••	2,285,870	3,831,134	6,117,004	
1910-1911	Į•• 6	2,254,333	4,016,424	6,270,757	
1911-1912	•••	2,755,324	4,714,321	7,409,645	
1912-1913	•••	2,929,309_	4,531,942	7,461,251	Upper Chenab Canal opened.
1913-1914	•••	3,069,950	4,281,771	7,351,721	Lower Bari Doab Caual opened.
1914-1915	•••	3,184,751	4,698,877	7,883,628	•
1915-1916	•••	2,886,578	5,095,954	7,982,532	Upper Jholum Canal opened. Decrease in knarif due to drought and ab- normally lew supplies in the rivers.
1916-1917		3,441,467	5,052,400	8,493,867	Decrease in rabi due to nunsually low supplies in rivers and failure of winter rules.
1917-1918	•••	3,333,822	4,652,566	7,980,388	Docroase due to excessive rains in kharif and to some of the land flooded by rain in October not drying up early enough
1918-1919	•••	3,465,286	4,882,860	8,818,146	to permit of rabi irrigation.

The areas include the Swat River Canal up to 1900-1901, after which date the canal was transferred to the North-West Frontier Province.

From 1894-1895 to 1905-1906 the total areas shown are net; thereafter the areas are gross.

PUNJAB CANALS, MINOR WORKS.

		Y BEY.	nrigated, 1	n acrier.	
YEAR.	•	Kharif.	Rabi.	Total.	Remarks.
1587-1888	•••	505,605	413,533	918,323	
1898-1889	***	571,558	425,870	- 997,128	
1889-1890	•••	512,112	452,598	001,710	
1630-1891	•••	520,108	462,518	982,956	
1891-1892	***	452,190	596,691	1,010,151	
1892-1813	***	191,151	528,558	1,079,709	Rivers rose late, but subsequent supplies were good, and rainfull was favourable, the result being the largest area on re-
1808-1804	 .	400,917	519,747	958,661	cord up to date. Decross due to the destruction of kharif erops by high floods and to less favourable working of the canals.
1894-1895		500,219	563,018	1,063,296	
1825-1826	•••	477,957	461,213	- 939,200	
1893-1897	•••	500,745	420,005	960,110	
1897-1898	••• }	565,582	552,778	1,158,340	
1998-1999		453,492	500,862	081,261	
1892-1900	•••	520,893	338,620	859,5.2	-
1960-1901	•••	669,569	688,130	1,857,699	•
1901-1902	•••	508,416	578,105	981,521	
1902-1903	• •	316 ¹ 115	403,129	815,699 778,347	Decrease due chiefly to the transfer of the Upper Sutlej Inundation Canals from head "Minor Works" to "Major Works" from let April 1962. Decrease due chiefly to the transfer of the Indus Inundation Cons's from head "Minor Works" to "Major Works"
1904-1905	[296,626	329,616	617,252	from 1st April 1903.
1905-1906		208,279	452,789	751,007	
1906-1907		205,898	507,119	603,317	
1997-1998		255,071	265,481	521,553	
1908-1909		442,038	526,008	568,093	
1902-1910		420,020	513,587	262,607	
1910-1911		459,270	497,015	956,255	
1911-1912	ĺ	402,611	459,606	802,017	
7912-1913		467,957	500,173	268,100	
1913-1914		461,572	500,671	971,743	
1914-1915]	466,107	613,306	1,079,413	
1915-1916		362,607	539,672	002,270	Decrease due to drought and abnormally
1916-1917	:	452,348	630,600	1,085,957	low supplies in the rivers.
1917-1918	•••	463,729	613,781	1,077,513	Decrease due to excessive rainfall.
1918-1919	•••	313,334	354,501	C67,839	Decrease due to low river supplies and adverse climatic conditions.

The above includes the areas irrigated by the Shahpur Provincial Canals from 1890-1891

inclusive.

The above includes the areas irrigated on Ghaggar Canals, British and Bikaner State.

From the year 1891-1895 to 1905-1906 the areas shown are net; thereafter the areas are

PUNJAB CANALS, MAJOR WORKS.

						_	For THE	YEAR.	
TRAR.	:	Capital outlay, Direct and Indirect to ond of year,	Interest charges to end of year,	Not revenue to end of year.	Accummu- lated profits to ond of year (column 4— column 3).	Gross rovenue.	Working expenses.	Net 10venue.	Percentage on capital.
1		2		4	<u> </u>	6	7	8	9
•		Rs.	Rs,	Rs.	Rs.	Re.	Ra.	Rs.	Re,
1697-1639	***	5,76,25,623	3,18,45,761	5,09,85,631	1,90,99,807	40,05,923	17,01,249	23,04,675	3.99
1688-1359	304	5,89,48,409	3,40,74,453	6,93 27,633	1,92,53,180	43,01,991	19,72,987	23,02,007	4.06
1689-1890	•••	6,00,98,478	3,03,49,808	5,61,80,320	1,99,30,513	49,66,797	21,14,115	23,52,682	4.74
1890-1891	***	6,23,71,861	3,86,93,707	6,93,37,074	2,11,43,807	59,30,410	21,73,686	36,56,754	P.82
1891-1692	.,,	6,70,91,026	4,11,74,523	6,38,28,120	2,24,51,603	60,40,890	22,51,933	87,89,052	6 ⋅05
1892-1893	•••	6,97,92,624	4,37,09,097	6,79,83,641	2,42,54,617	63,09,149	24.51,631	43,57,518	6:24
1693-1894	***	7,34.89,870	4,65,49,772	7,09,69,491	4,43,40,719	53,50,907	24,45,080	29,05,847	8.95
1891-1895	•••	7,61,95,573	4,94,29,432	7,42,01,493	2,47,75,001	69,65,661	26,50,519	83,15,003	4.33
1896-1896	•=	8,02,57,067	5,24 ,41 ,595	7,87,76,591	2,63,35,028	70.98,253	28,40,474	42,57,780	5-31
1690-1897	***	6,41,00,255	5,56,01,216	8,58,31,033	3,10,32,817	1,09,44,449	30,87,005	78,57,443	9.34
1697-1699	1	8,70,19,565	5,99,02,163	g,66,86,226	8,67,44,063	1,21,85,419	31,86,227	90,02,193	10.32
1699-1699	***	8,92,16,631	6,22,82,641	10,44,91,514	4,22,09,173	1,24,07,093	35,51,505	88,55,589	0.53
1599-1900	,	9,69,47,216	G,57,49,487	11,37,77,761	4,50,28,274	1,84,14, 6 61	41,29,714	92,85,944	10.21
1900-1001	,	9,20,75,977	6 02,70,350	12,40,93,216	5,49,21,697	1,46,18,136	43,01,651	1,03,14,455	11:20
901-1902*	<i>,</i>	8,01,41,698	6,92,30,552	13,15,08,916	6,16,78,364	1,16,25,199	43 20,919	1,03,08,279	11.53
1902-1963	···,	10,31,61,055	7,53,76,849	14,45,26,777	0,01,89,023	1,65,14,594	49,22,673	1,17,91,021	11:39
903-1904	***	70 69,67,937	6,03,38,374	15,62,78,609	5,70,42,525	1,85,73,691	57,18,071	1,28,55,020	12-02
904-1905		10,57,58,316	8,44,56,907	17,16,51,215	8,71,01,333	1,96,10,593	62,38,217	1,33,72,346	12-29
1905-1936	***	11,01,5:,719	8,86,86,692	18,37,47,753	9,51,11,106	1,83,86,568	65,90,265	1,17,40,302	20-60
906-1067	•••	11,11,10,550	9,23,01,017	19,79,61,811	10,56,47,761	2,21,75,707	69,78,097	1,51,97,700	18:65
907-1908		11,23 63,171	9,59,51,870	21,10,52,103	11,50,70,233	2,02,79,693	71,79,407	1,31,00,202	11.64
969-1909	***	11,28,02,325	9,76,67,325	22,48,80,401	12,52,23,076	2,11,00,012	72,71,714	1,39,23,293	12:20
909-1910	·	11,83,18,773	10,33,19,741	23,93,61,131	18,00,41,893	2,23,99,978	70,19,245	1,44,80,733	12:78
910-1911		11,43,31,721	10,70,28,003	25,49,75,785	14,79,47,692	2,34,16,942	78,02,201	1,56,14,651	18-60
911-1912		11,62,22,814	11,09,11,169	27,87,29,763	10,20,18,509	2,71,10,441	63,56,453	1,67,53,983	16-1
912-1913		14,02,99,761	11,85,74,967	29,78,41,160	17,91,00,812	8,27,93,330	86,81,029	2,41,11,401	16.4
913-1914	•••	16,77,87,610	12,53,50,785	32,87,69,670	10,84,18,885	3,47,39,517	89,11,016	2,59,28,501	15.4
914-1915		17,17,13,710	13,11,06,084	34,99,07,666	21,70,01,582	3,45,62,445	93,21,449	2,62,37,096	147
915-1910		21,69,51,484	14,40,61,291	37,20,65,954	22,83,01,673	3,45,89,801	1,05,31,516	2,86,58,289	10-9
910-1917		22,06,16.193	15,10,65,128	40,13,27,395	25,02,02,207	8,96,31,912	1,09,70,471	2,86,61,441	1
917-1916	ł	22,83,05,164	15,85,49,520	47,60,26,600	26,04,77,289	3,78,03,205	1,11,03,851	2,00,99,414	1
918-1919	- 1		16,61,18,205	45,63,27,320	29,22,09,025	4,13,14,912	1,10,14,431	8,03,00,511	1

^{*}Excludes the figures relating to the Swat River Causi, which new belongs to the North-West Frontier Province. The figures up to 1900-1901 include the figures of that causi.

The gross revenue in column 6 is that actually collected during the year and differs from the revenue as assessed on the area irrigated in the year.

GOVERNMENT OF THE PUNJAB. PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

No. 7-R. I.

The 7th January 1920.

Resolution by His Honour the Licutenant-Governor of the Punjab and its Dependencies.

READ-

Administration Report by the Chief Engineer, Irrigation Works, Punjab, of the Canals in the Punjab for the year 1918-19.

Capital Outlay.

The total outlay to date (direct and indirect) on canals in operation, classed as Productive, or Major, Works, amounted to Rs. 23,99,91,465, including Rs. 1,54,82,914 contributed by Native States. During the year the nett expenditure was Rs. 12,07,566 (Imperial Rs 12,06,387, Contribution Rs. 1,179) after deducting a sum of Rs. 6,96,388 which was realized mainly—

- (a) from sale of surplus stores and Tools and Plant rendered available by the completion of works on the Triple Canals; and
- (b) from colonists on account of cost of watercourses which Government had built for them in advance, in order to secure rapid development of irrigation on the Triplo Canal Systom.

The corresponding expenditure in preceding years was Rs. 26,92,939 In 1917-18 and Rs. 36,80,096 in 1916-17, the decrease being due to the completion of the Triple Canal System, the construction estimate of which was closed on 31st March 1917, and to labour and transport difficulties, which interfered with the completion of certain works on the Lower Chenab and Lower Jhelum Canals.

Nature of seasons.

2. Kharif, 1918.—Conditions were unfavourable at first, as the preceding rabi season had been exceptionally dry, and less moisture than usual remained in the soil. Rainfall in March assisted the preliminary sowings, particularly of cotton and cane, but the conditions of April and May were again unfavourable, and the crops received little or no assistance from rain. The monsoon began in June, but the current was extremely weak, and breaks in the rains occurred more often than usual. Rainfall improved during the latter half of August, but failed thereafter; and the total rainfall from June to September was very much below the normal. The sowings were restricted, and standing crops suffered through the insufficiency of the monsoon rains, and from attacks by grasshoppers and other insects.

The scanty monsoon resulted in low river levels, and the Inundation Canals drew less water than usual. The demand for canal water was very keen; and on the perennial canals it was, on the whole, satisfactorily met; as the river supplies, though lower than usual, were under complete control.

Rabi, 1918-19.—The river supplies fell very early in the season, owing to the very poor monsoon rainfall, and much of the available water was utilized by the cultivators for the maturing of their *kharif* crops. Rabi sowings were further interfered with by the influenza epidemic of October and November 1918. There was some rainfall in the second week of December, advantage of which was taken for rabi sowings. A period of dry weather then ensued and lasted till end of January, when there was a substantial fall of rain throughout

the Province, doing immense good to the crops. Thereafter the weather was generally dry till the end of March, when light, but fairly general, rain fell, which further benefitted the standing crops.

Generally speaking, the climatic conditions were unfavourable for the sowing and maturing of the *kharif* crops, and for the sowing of the *rabi* crops.

Areas irrigated, etc.

3. The areas irrigated and matured by works of all kinds compare as follows with the corresponding figures for the two previous triennia and for the year 1917-18:—

				Avedage of the 8	THANS BUDING	ARRA INDIGAT	ed During
	Particul	lars.		1914-15.	1917-18.	1917-18.	1918-19.
Imper	lal and	<i>Proxincial</i>					
Area irrigated	•••	121	•••	8,059,453	8,646,495	8,000,153	e,416,478
Area matured	**1	***	•••	7,667,893	8,015,453	7,976,095	7,974,417
,	Natice S	Ståtes.			}	1	
Area irrigated	•••	***	***	280,800	E78,787	409,791	600,511
Arca matured	***	***	644	552,637	575,558	461,639	697,025

In the case of Imperial and Provincial Canals the area irrigated was about 200,000 acres less than in 1917-18 (a year of abnormally heavy rainfall), but the area matured was about the same in either year, the flooding of 1917-18 having done more damage than the drought of 1918-19. The area matured in 1918-19 was about 70,000 acres less than the average of the triennium ending 1917-18, but the area that failed to mature during 1918-19 was also about 60,000 acres less than that of the triennium ending 1917-18.

Of the area irrigated under the heads Imperial and Provincial, the Productivo Major Works accounted for 7,748,983 acres and the Minor Works for 666-90 acres, as compared with 7,531,316 acres and 1,068,842 acres, respectively, in 1917-18, and 7,632,536 acres and 1,018,939 acres, respectively, the averages for the triennium ending 1917-18. The figures for the Minor Works, and the Inundation Canals under Major Works, were adversely affected by the low river supplies, and climatic conditions, whilst those for the perennial canals showed improved results, except on the Western Jumna and Upper Bari Doab Canals, where the cotton and jowar crops suffered considerably, owing to the failure of the monsoon. The decrease on these canals was partly counterbalanced by an increase on the Lower Chenab and Triple Canals. On the former the demand for canal water was unusually keen, and the figures for the kharif season constitute a record. On the latter the increase was due to development of irrigation.

The areas irrigated and matured in Native States showed improvement as compared with the figures of 1917-18 and with the average of the two previous triennia. These Native States enjoy a more plentiful rainfall, which renders it easier for them to dispose with canal irrigation in certain years.

4. The area on which irrigation charges were remitted amounted to 444,542 acres as compared with 626,177 acres in 1917-18, and 6.3,413 acres in 1916-17. Deducting from these figures, respectively, 60,955, 101,814 and 175,718 acres, remitted under Tenancy rules (mostly on the Lower Bari Doab Canal) not for failure of crops, but as part of the terms of colonization, the area of crops that actually failed, either wholly or partially, amounted to 383,583 acres, or 4.25 per cent. of the area sown, as compared

with 124,363 acres, or 5.79 per cent. in 1917-18, and 423,940 acres, or 4.49 per cent. in 1916-17. Generally speaking, the percentage of remissions on all Canals appeares to be decreasing progressively with the development of irrigation practice and experience. The remissions fall mainly under the following heads of classification:—

		Acres.
(a) Short supply	•••	167,425
(b) Bad soil	***	82,785
(c) Other insects and blights	***	~ 55,087

The area remitted under (a) was for the most part on the Inuudation Canals, as was to be expected in such an abnormally dry season, accompanied by unusually low supplies in the rivers. The remissions under (b) were granted chiefly on the Inuudation Canals in the Derajat Circle and on the Lower Bari Doab Canal. The damage under (c) was due to grasshoppers and other insects destroying sugarcane, cotton, rice and jowar, particularly on the Western Jumna and Upper Bari Doab Canals, owing to the searcity of grass for them to feed on during July and August.

Considering that the year was one of abnormally scanty rainfall, and of an exceptionally scanty flow in the rivers, the results were satisfactory.

Financial Results.

5. The financial results are based, not on the areas irrigated during Kharif 1918 and Rabi 1918-19, but on those of Rabi 1917-18 and Kharif 1918, water dues on account of which were realized during the financial year under review. The gross receipts from works of all kinds compare as follows with the figures for the year 1917-18 and the averages of the two triennia ending 1914-15 and 1917-18:—

		Average of the	THREE TEAUS O		
Part'enlars.		1914-IF.	1917-18.	During 1917-18.	During 1918-19.
		Ra.	Rs.	R•	Rs.
Imperial and Provincial.				1	
Major Works		8,40,31,764	5,70,41,638	9,79,03,265	4,13,14,913
Minor Werls	•	18,57,540	20,10,512	21,35,091	17,00,108
Total	•	3,59,80,304	8,93,52,205	3,99,35,856	4,31,65,019
Kallee States.					
Mijor Works		25,21,870	26,24.971	25,90,618	22,76,164
Klinor Works	.,.	17,851	18,129	17,873	2,204
Total		25,37,417	28,43,100	102,80,82	22,78,459

The above figures, under Imperial and Provincial, work out to an average rate of Rs. 5.3 per acre matured.

Working Expenses.—The working expenses for the year are compared helow with the figures of 1917-18 and the averages of the two previous triennia—

			ATERAGE OF THE			
Particulars,		1014-15. 1917-18.		Daring 1917-18.	During 1918-19.	
. Imperial and	Proptacia		Ris.	Re,	He.	Rs.
Major Works	•••	•••	69,83,131	1,10,01,946	1,11,03,853	1,10,14,431
Minor Works	***	•••	9,52,001	9,01,410	8,81,775	9,85,366
	Total	•••	08,01,132	1,10,03,386	1,19,85,027	1,10,99,797
Natire	States.	-				Andreas Institute Committee or other Committee or o
Major Works	•		9,11,511	70,07,888	10,52,014	8,78,549
Minor works	•••		6,951	8,203	7,762	, 8,519
	Total		0,18,462	10,16,011	10,60,978	8,87,067

The decrease under Major Works was due chiefly to the postponement of certain small works on account of labour difficulties resulting from the malarial and influenza epidemics which were exceptionally severe during October and November 1918.

The increase under Minor Works occurred mainly on the Lower Sutley Inundation Canals and the Shahpur Imperial Inundation Canals. On the former it arese from the necessity of diverting the Mailsi and Muhammadwah Canals; and on the latter from special silt clearances.

Nett Revenue.—The nett revenue for the year compares as follows with that of the previous year:—

				Average of the	ie tuble teaps ing	,	,			
•	Particulars,		Particulars.			1914-15, 1017-		During 1917-18.	During 1918-19	
				Rs.	Ro.	Re.	Rs.			
Imper	ial and	Provincial.	1							
Major Works	•••	404	•••	2,50,92,683	2,63,39,717	2,66,09,413	3,03,00,51 L			
Miner Works	•••	***	- "	9,00,539	11,09,102	12,59,316	6,04,740			
•		Total	;**	2,69,92,173	2,74,45,819	2,79,62,729	à.11,05,251			
•	Not(c	ę Blates.				,				
Major Works	***			18,10,865	10,17,183	15,97,901	•18,97,616			
Nipor Works	***	***	***	10,590	9,926	.10,111	÷ 6,225			
÷ _		Total		16,20,055	16,97,059	15,48,015	13,91,391			

The increase in the case of Major Works was attributable mainly to the development of irrigation, to the increased credit on account of the sale proceeds of Government waste and other lands irrigated by the Triple Canals, and to a credit of Rs. 17,10,221 on account of land revenue and malikana in the Montgomery District of the Lower Bari Doab Canal, which included arrears for the six previous years. Partly also to the record area irrigated by the Lower Chenab Canal during Kharif 1918.

The decrease under Minor Works was due to scanty rainfall and low supplies in the rivers during the Kharif scason.

The nett revenue carned by Major Works, including indirect receipts, but excluding interest charges, amounted to 13.50 per cent. of the total capital outlay; whilst direct receipts alone yielded 7.40 per cent.

The interest charges for the year amounted to Rs. 75,68,775; and the nett profit, after defraying interest charges, was Rs. 2,27,31,736 or 10·12 per cent. of the capital outlay to date. In the previous year the corresponding figures were Rs. 1,92,15,030, or 8·60 per cent., respectively. If the direct receipts alone are considered the nett profit, after defraying interest charges, comes to Rs. 91,27,460, or 4·00 per cent., as against 5·82 per cent., in the previous year. Under the Provincial Contract this nott profit is shared equally between the Imperial and Provincial Governments; but if the half share of the Provincial Government in any one year falls short of 41 lakhs, the Government of India makes good the deficiency. The half share during the year under review comes to 45·6 lakhs, i.e., 4·6 lakhs more than the guaranteed minimum. The question of revising these Provincial Contracts is under the consideration of the Government of India, and it is anticipated that under the new terms proposed the Provincial Government will realize a larger share of the surplus.

The percentages of nott revenue on capital outlay in the case of each of the Major Works were as follows:—

Canal	•		Excluding interest charges.	Including int rest charges.	
Western Jumna Canal Sirbind Canal (Imperial) Upper Barl Dorb Canal	***	666 66 6	011	8:66 6:66 16:89	5 33 \$ 24 13-57
Lower Bari Doab Canal Upper Chenab Canal Lower Chenab Canal	*** 4** ***	***	***	16 65 1·97 43 65	12·15 - 1 41 40:11
Upper Jhelum Canal Lower Jhelum Canal Upper Sutlej Inundation Canale	4.0	***	***	0 14 20 19 25 63	- 3 27 17-13 29-33
Sidhnai Canal Indus Inundation Canals	***	944	***	58·52 5·38	50°43

All canals showed better results than those of the previous year, with the exception of the Western Jumna, Sirhind, Lower Jhelum and Upper Chenab Canals. The decrease on the first three canals was mainly due to a decrease in area irrigated.

General Remarks.

^{6.} The development of irrigation on the Triple Canal system has not been as rapid as was anticipated in the Project, owing mainly to a delay of about a year in the opening of the Upper Jhelum Canal. The area irrigated

by the Triple Canal system during the year under review was greater than in the preceding year, but less, by 613,198 acres, than the area forecast for this year in the Project Report. The gross receipts amounted to Rs. 74,81,679, and the working expenses to Rs. 31,90,545; resulting in a net revenue of Rs. 42,91,134 or 4·15 per cent. on the total capital outlay to dato (Rs. 10,34,15,739). The Project forecast for the year was Rs. 76,03,731 for gross receipts. The nett profit, after defraying interest charges, which amounted to Rs. 35,15,934 during the year, comes to Rs. 7,7:,200. This was the third year of irrigation from the complete Triplo Canal Project which has, for the first time, been able to earn a profit after paying off both its working expenses and interest charges.

- 7. The length of channels in operation at the end of March 1919 was 19,654 miles, viz., 4,405 miles of main and branch canals, and 15, 246 miles of distributaries. Five miles of main and branch canals and 120 miles of distributaries were open for the first time for irrigation during the year.
- 8. The estimated value of crops raised on all canals including those of Native States, during the year under review, was Rs. 55,08,14,095 as compared with Rs. 33,36,99,916 during the previous year. These figures represent Rs. 64 and Rs. 40, respectively, per acre matured; the increase reflecting the rise in value of agricultural produce; and it may be interesting to note that the value of this year's crops amounts to 2.5 times the total capital outlay on all canals system up to date. The cultivator had to pay only Rs. 5.3 per acre for water rates on crops of an average value of Rs. 64 per acre.
- 9. A review of the development of eanal irrigation in the Punjab shows that the area irrigated in 1864-65 was only about 750,000 acros, valued at 3 erores of rupees; whereas during the year under review the area irrigated was over 9 million aeres, valued at more than 55 crores of rupees.

Fifty years ago the country was sparsely populated and subject to famine. The canals have changed all this. The population increased from 17,275,000 in 1891 to 19,975,000 in 1911, the people have become more prosperous, and the Province has been secured against famine. The canals have also contributed largely to the expansion of the railway system; and have made possible large exports of agricultural produce, which have been especially valuable during the recont war.

- 10. As noticed in paragraph 11 of the last year's review, further considerable extensions of canal irrigation in the Province have been under consideration. The important projects detailed therein have been maturing during the year under review. The Sutlej Valley Project was still under discussion with the Bahawalpur representatives. The Report on the Bhakra Dam Project has been received, but nothing further can be done on this Project, or on the Haveli Project, until the scope of the Sutlej Valley Project is settled finally. The Report on the That Canal Project was under preparation. The Project for the construction of the Woolar Lake Barrage in Kashmir, to supplement the winter water supply of the river Jhelum, was awaiting the consent of the Kashmir Darbar.
- 11. The posts of Chief Engineer were held during the year under review by—

	L'EOIR .	10
Mr. W. F. Holms	1-4-1918	7-12-1918
Mr. H. W. M. Ives	8-12-1918	31-3-1919
The Hon'ble Mr. F. W. Woods	1-4-1016	31 3-1919 '

and the Lieutenant-Governor desires to thank these officers and the Department generally for their valuable services during the year. It is a peculiar gratification to him to find that the work done by Mr. Woods has since been recognized by the bestowal of the Order of the C.I.E. and he desires to congratulate both Mr. Woods and the Department on the receipt of this distinction.

By order of His Honour the Lieutenant-Governor,

F. W. WOODS.

Secretary to Government, Punjab.

ADMINISTRATION REPORT

OF THE

CANALS IN THE PUNJAB

FOR THE YEAR

1918-19.

${f GENERAL}$

1. The direct receipts and expenditure of the Irrigation Department during the year were as follows:—

		1	Diar	ot Expenditu	RE.
CLASS OF WORKS.		Direct Receipts.	Capital	Working expenses,	Total,
		Rs.	Rs.	.Rs.	Rs.
Imporial		2,77,10,675	11,48,168	1,02,92,076	1,14,40,244
Major Irrigation { Works. Contributions		85,399	1,179	3,97,746	3,98,925
(Imperial		8,09,596	11,799	8,92,570	9,04,369
Minor Irrigation (Contributions	••	***	782	2,859	3,591~
Provincial Canals	•- •	29,464		36,265	36,265
. 1	•				
GRAND TOYAL	•••	2,86,35,081	11,61,878	1,16,21,516	1,27,83,394 ·
* ****			<u> </u>		
Average of the three years ending 19.	9)7-	2,72,66,487	36,02,565	1,17,62,263	1,53,64,828

^{*} Excludes "refunds of revenue."

^{2.} The indirect revenue credited to the canals on account of Enhanced Land Revenue, etc., amounted to Rs. 1,45,55,293.

The average credit on this account of the three previous years amounts to Rs. 1,21,59,256.

3. The following table shows the areas irrigated by the several canals in 1918 19 as compared with the averages of the previous triennium and with the figures of 1917-18:—

Names of Canals.			Average of the three years ending 1917-18.	1917-18.	1918-19.
Major Irrigation Works				A	
· · · · · · · · · · · · · · · · · · ·		-	Acres.	Acres.	Acres.
Western Jumna Canal - Imperial		•••	720,170	650,413	658,895
Crantin Dere		••-	72,785	74,912	61,637
Sirhind Canal Patiala, Nabba		 	790,191	551,731	887,875
C I Martin Comment	and Jind S	Lates	498,042	350,160	537,526
Upper Bari Dorb Canal	•••	•••	1,163,654	1,114,521	1,065,019
Lower Bari Doub Canal	••	•••	473,277	621,600	678,001
Upper Chenab Canal	-••	••	981,825	382,935	426,864
Lower Chonab Canal	• • •	•••	2,292,641	2,277,125	2,339,198
Upper Jhelum Canal	•••	••	*147,305	177,006	246,669
Lower Jholum Canal	•••		801,460	765,470	777.496
Upper Sutlej Canals	***	•••	347,251	437,857	258,499
Sidhnai Caual	•••	•••	295,716	318,412	229,397
Iudus Canals	'	•••	235,001	204,213	181,097
Total Major Irrigation & Imperial	•••		7,632,536	7,531,316	7,748,983
Works. Nativo State			570,827	455,072	590,163
1,011	O.S	•••	370,021	400,072	000,100
Minor Irrigation Works.		- 1			
Shahpur Inundation Canals { Imperial Provincial	•••		38,722	42,633	16,727
Shahpur Inundation Canals Provincial			25,128	25,085	13 183
(•••	11	24,052	21,823	11,472
Ghaggar Inundation Canals Bikanor St			7,960	r,671	1,345
Lower Sutlej Inundation Canals (including I	Hajiwah C	anall	337,517	365, 184	159,9,6
Changh Inundation Canals	•••		. 201,534	229,042	126,629
Muzaffargarh Innudation Canals	•••		886,976	385,075	308,563
Ravi Inundation Canals (Provincial)					•••
Itali Illumania como				•••	
(Imperial			985,831	1,013,757	653,307
Total Minor Irrigation Provincial	•••	•••	25,128	25,085	13,183
Works (Native State	CS.		7,960	8,671	1,348
(Imporial		ĺ	9 601 907	C K95 050	8,402,290
m		•••	8,621,367	8,575,073	13,183
Irrigation Works. (Native State	•••	•••	25,128	25,085	
Irrigation Works. (Native State	40	•••	578,787	463,743	600,511
GRAND TO	TAL		9,225,282	9,063,901	9,015,984

Average of two years only.

Financial results.

4. The canals in the Punjab show the following results for 1918-19:—

I.—CANALS' IN OPERATION CLASSED AS PRODUCTIVE. Major Works.

Capital expenditure during the year.	{ Direct chr { Indirect chr		•••	•••	Rs. 11,48,168 58,219
,			Total		12,06,387
The capital invested	to end of 191	8-19 amount	ed to	,	22,45,17,551
Income from all som Working expenses le			1)		4,13,14,942 1,10,14,481
Balance excess revon Interest—	no being 13.5	0 per cent. o	n Rs. 22,45,		3,03,00,511
Total direct ontlay to Less half outlay duri		191 9 		Rs. 9,55,186 5,74,084	•
Mean Capital at char Interest on Rs. 21,73		1818 per cont		3,81,102	75,69,775
Not profit after payi Ditto Ditto	ng iutorest in `ditto ditto	1918 19 1917-18 1916-17	***	•••	2,27,31,736 1,92,15,630 2,16,57,594

The earnings of the Major Works are shown in line 24 of the statement at pages 4 and 5.

II.-IMPERIAL CANALS, MINOR WORKS NOT CLASSED AS PRODUCTIVE.

The capital expenditure (direct and indirect) incurred during the year on those canals for which Capital and Revenue Accounts are kept, viz., Shahpur Imperial and Ghaggar Canals, amounted to Rs. 12,247. The total expenditure on such canals to end of the year was, therefore, Rs. 6,04,318.

Th	e income fr	om all sources	less refu	ınds (Rs. 47	9) amounted to	• • • •	Rs. 17,48,492
w	orking expe	nses <i>less</i> refur	ids (Rs. 4	1 79)	•••	•••	9,46,347
Ba	lance profit	in 1918-19	•••	•••	•••	·	8,02,145
	Ditto	1917-18	·	4**	•••	•••	12,36,137
	Ditto	1916-17	•••	•••	**	•••	11,36,719

· The financial results of each Minor Work are shown in the body of the report.

III .-- Provincial Canals.

There is only one Provincial Canal in operation, viz., the Shahpur Provincial Canal. The Ravi Inundation Canals have now ceased to exist, but the transactions shown in column 18 of the statement at page 5 relate to some adjustments effected.

The income from	all sources less refu	nds (nil) amounted to	•••	Rs. 41,614
Working expense	es less refunds (nil)	•	\	•••	39,019
Balance profit in	1918-19	•••	• • •	•••	2,595
Ditto	1917-18	•••	•••	•••	17,179
Ditto	1916-17	**	•••	,	-1,326

5. The total number of dismissals and other severe punishments was

95 as compared with 100 in 1917-18 and 110
in 1916-17. Of this total 73 were dismissals,

26 after departmental enquiry, 1 after Judicial enquiry, 32 for serious misconduct and 14 for inefficiency. In the previous year the corresponding figures were 27, 3, 23 and 30 respectively.

Other forms of punishments were inflicted in 22 cases. In 9 of these the punishment was transfer of the culprits while in the remaining 13 cases reduction in rank or pay or both, was ordered, the corresponding figures in 1917-18 having been 2 and 9 respectively.

The total of 95, as usual, does not include minor disciplinary punishments.

			CAMALS IN C	PENATION CL	ISSED AS PRO	dvetite.	
Partioulars.	Sotial No	Western Jumns Cauni (including Sires Hranch).	Sirhind Canni (Imperial).	Upper Bari Doab Canal	Lower Barl Deab Cunal,	Upper Chennb Cunal.	Lower Chennb Canal.
1	2	3	4	Б	0	7	8/
I.—Capital (direct and indirect) untily to {1917-1 ond of	, -	R1. 1,76,92,529 1,77,11,586	R ₄ , 2,58,31,980 2,50,58,654	Rs 2,18,32,288 2,23,96,782	Re. 2,24,01,550 2,26,46,190	R ₁ . 3,57,76,506 3,57,09,567	Rs. 3,25,18,571 8,24,90,216
II.—Income realized during the year— Direct, wiz., water rent and mis { 1918-10 1918-10	1 0	26,60,419	39,36,816 27,00,230	42,28,782 44,19,285	18,60,745 22,67,317	19,91,419 18,08,198	85,57,053 89,44,064
Indirect, viz., 1 and revolun due to 1917-19 1rzigalion Works, incloding water- 2 advantage rate.	, ,	2,30,270 2,18,741	98,174 98,480	7,13,848 0,87,183	2,92,002 24,86,522	8,58,650 1,10,140	67,06,092 76,80,183
Total Direct and Indirect { 1917-1:	7	80,18,838 25,76,164	94,85,019 28,67,716	49,42,180 51,06,428	16,49,847 48,83,889	28,46,069 10,87,885	1,52,68,175 1,66,24,217
III.—Charges (direct and indirect) for the year— Maintenance, including Establish- 1918-1	. a	13,70,721	12,54,492 11,81,868	18,94,188 18,22,309	9,13,867	10,56,613 12,60,996	24,60,511 23,74,976
Interest on Capital untiny { 1917-1:	1 11	5,63,144	8,47,427 8,51,225	7,82,708 7,44,178	7,62,906 7,69,859	12,00,642	10,99,528 11,03,710
Total{1917-I	1 10	19,57,005 19,28,591	21,01,910 20,38,098	20,66,839 20,60,582	10,07,763 10,40,780	22,87,255 24,01,810	95,00,034 84,79,030
(a) Including Interest { Amount { 1917-1	1 10		15,33,100 8,34,620	25,75,291 30,39,841	-24 416 27,53,053	57,814 5,04,494	1,17,03,147
on Capital outlay. Percentage on [1917-] Capital out-	1 1	1	5·20 5·34	19:17	0·11 12·15	0·16 1·41	35-99 40-44
Amonut {1017-1	1	1	20,82,858 15,87,962	28,94,619 30,90,926	4,40,888 10,85,418	9,04,500 5,87,190	60,06,672 66,69,08
Percentage on 1917-1 Cupital nut. 1918-1	-		8·12 6·18	18·20 18·83	2·00 4 57	2·52	18·70 20·2
Amount {1618-1 1618-1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2] -	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	21,80,527 10,85,848	30,07,997 37,54,114	7,29,490 95,21,985	12,58 450 7,06,899	1,28,02,66 1,42,49,27
Percentings on 1917-1 Capital ont- lay.	1	1	8-51	16·52	9°24 15°55	8-52	39:3 43:8

g-pin		Major Works				WORKS, NO	NALS, MINOR COLARGED AS ICTIVE.	Paoyinoi	al Canale.	
Upper Jhelum Cgnal,	Loner Jhelum Canal,	Upper Entiej (including Lower Soliag and Para).	Fidhoni Canal,	Indus Inundation Canals,	Total Preductive.	Works for which Capital and Revenue Accounts are kept,	Works for which only Rovenno Accounts are kept.	Shahpur Provincial Canala,	Ravi Innudation Canals.	Serial No.
5	10	11	12	18	11	15	10	17	18	" 19
Rs.	Rs.	Ra.	R.	R•	Rs	Ro.	Rs.	Re.	Rs.	
4,50,87,81 8	1,62,25,129	18,17,323	13,83,237	29,80,753	22,33,05,164	5,92,071	}	•••	***	1
4,49,99,973	1,66 77,579	18,12,296	13,30,674	29,81,545	22,45,11,651	6,01,818	•••	•••	•••	:
5,57,993	27,90,507	4.98,500	5,41,468	1,04,830	2,71,21,755	1,17,735	8,81,477	48,501	***	
8,00,605	26,82,019	5,52,759	6,09,580	2,00,517	2,77,10,675	73,756	7,35,840	20,484	***	
•••	16,33,652	2,51,729	1,57,157	2,46,840	1,06,78,519	40,398	10,28,821	19,932	-1,776	Ì.,
.,,	18,91,182	2,53,150	2,02,893	2,29,273	1,96,04,267	20,618	9,18,278	12,130		
5,87,993	41,29,169	7,53,281	7,01,625	4,41,690	3,78,03,271	1,58,133	19,10,301	08,493	-1,776	
8,00,505	42,77,101	8,40,909	*8,11,928	4,29,780	4,13,14,913	93,874	16,51,118	41,614	,	
8,27,495	9,15,765	3,82,314	1,58,769	8,99,182	1,11,03 852	95,212	7,87,056	47,607	1,871	<u> </u>
7,37,615	8,60,215	3,76,897	95,788	2,70,880	1,10,14,431	84,801	F,61,51G	39,019	100	1
15,18,063	6,44,816	030,03	41,028	1,00,757	74,64,193				111	1
15,36,229	5,53,356	59,670	41,958	1,01,002	75,48,775	<i>,</i>	.,,	**1	***	1
28,41,158	14,60,611	4,41,964	2,03,697	4,99 939	1,55,88,211	95,213	7,37,096	47,007	1,871	1
22,78,874	14,19,071	4,36,067	1,40,740	3,71,698	1,85,83,206	P 1,801	8,61,546	39,019	•••	,
-18,03,165	29,68,549	1,08,270	4,97,92P	-59,210	1,92,15,030			<i>"</i>] 1
-14,73,369	23,58,080	4,01,812	0,71,177	57,002	2,27,51,736	·		***	***	1
-4.00	18 29	16-90	37:88	-1.95	8 60					1
-3 27	17:18	22:38	5048	1-94	10-12	***		141	***	1
-2,89,502	18,74,742	-J,16,192	3,85,099	-2,04,832	1,60,20,003	22,523	1,41,393	894	-1,871	1
62,860	18,22,701	1,76,862	5,18,742	70,860	1,06,96,214	—11,045	1,25,700	9,595	, ···	2
-084	11 55	0.89	28.95	-0·85	7.17	8.80				2
6:14	10 93	9 73	38.61	2:80	7:40	-1.81	•••	***		2
-2,89,502	35,13,394	3,67,920	5,42,850	42,508	2,60,09,422	62,021	11,73,216	20,826	-3,047	,
02,860	34,10,88 6	4,04,512	7,10,185	1,69,904	3,03,00,511	9,573	7,92,572	2,595	•••	2
0'64	21.00	20 24	40.75	1.42	11:05	10 53		***	110	
-14	20.49	25 08	£3 82	5·83	13.50	1.28		***	340	

Major Irrigation Works. WESTERN JUMNA CANAL.

(SUPERINTENDING ENGINEER-MR. G. C. LAURIE.)

1. Imperial.—The expenditure (direct and indirect) amounted to Rs. 19.157 and was incurred mainly on stock transactions. Under works the expenditure was Rs. 1,985 only but that was more than counterbalanced by a credit of Rs. 5,042 on account of the value of land surrendered. The expenditure

was incurred on constructing new out-houses for the Sub-Divisional officer's residential quarters at Sirsa.

The total outlay to date was Rs. 1,77,11,686.

- 2. The expenditure amounted to Rs. 1,16,054 (Rs. 96,786 Imperial and Rs. 19,768 Contribution) and was incurred on numerous works for increasing the efficiency of the eanal The important works earried out were:—Extension of the training work known as the "Chhajja pitching" at Tajawala; constructing the Dhumra inlet in the Main Branch; and the new head regulator for Petwar and Hissar distributaries.
- 3. The expenditure amounted to Rs. 5,70,251 (Rs. 5,45,795 Imperial and Rs 24,459 Contribution). In addition to this Rs. 21,689 and Rs. 25,283 were also spent by the Patiala and Jind States, respectively, on the maintenance of their distributaries Apart from ordinary repairs and maintenance of channels and buildings numerous works were carried out for increasing the efficiency of the canal and improving the banks of the channels.
- A. (a) Kharif.—The season started badly as the monsoon rains, with the exception of a few showers early in June, commenced only in the middle of August, lasted for a fortnight and failed entirely thereafter. The improvement in the latter half of August was, therefore, not sustained and the season ended badly.

The canal was in flow for 167 days. The demand was generally keen and supply sufficient to meet it, although the river was considerably below its average. There were no high floods in the river; the highest gauge registered being 248 feet at Ponta on the 21st August against the maximum recorded flood of 385 feet on the 14th August 1903.

(b) Rabi.—The supply fell early in the season to less than the demand owing to the very poor monsoon rainfall and its early eessation.

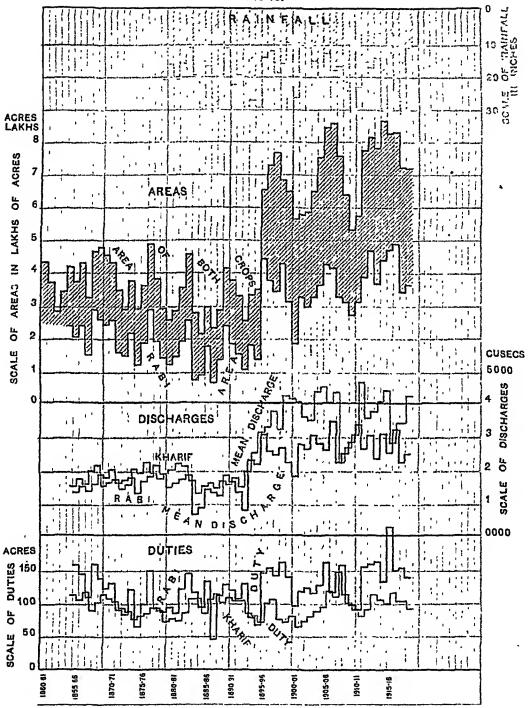
Winter rains commenced at the end of January and continued during February and March, doing considerable benefit to the crops. These rains made a closure of the canal possible which was much needed and so reduced the demand for water that the supply was sufficient during the latter part of the season. The canal was in flow for 162 days and was closed for 20 days owing to cessation of demand.

(c) Rainfall. The following table compares the rainfall during the year with that of 1917-18 and with the average of the years previous to 1917-18:—

•	1918-19.	1917-18.	Average previous to 1917-18.
	Inches.	Inches.	Inches.
Ì			
!	39-37	98.15	57.9
	36.25	91.9	53.2 .
	29-43	65.9	41.6
t t	14.20	31.3	28.4
	21.83	35.2	26.0
i	16.45	31.4	. 22'0
. 1	12.37	32.8	_ 20.2
ŀ	8.89	33.2	17.0
	9.22	` 37∙5	13.8
		14·20 21·83 16·45 12·37 8·89	14·20

WESTERN JUMNA CANAL.

WORKING RECORD. 1918-19.



N. B .- The intercepts in the red area show the Kharif acreage each year.

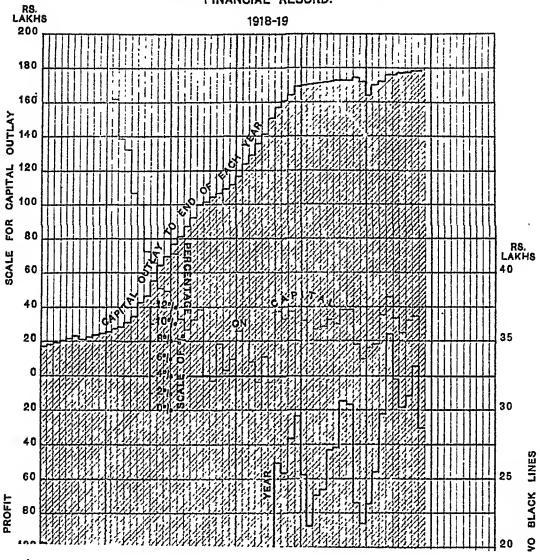
The areas shown include these done in Patiala State on Sirsa, Branch. .

The discharges are as measured at canal head, and are averages utilised for the whole of each crop.

The duties are derived from the above areas and discharges.

WESTERN JUMNA CANAL.





5. The following table shows the irrigation effected during 1918-19

as compared with the averages of the previous triennial periods:—

Rabi, 1918-19.

			Average for ENDIJ		Area irrigated during		
	Crop.		1914-15.	1917-18.	1917-18.	1918-19.	
	·		Acres.	Acres.	Acres.	Acres.	
Kharif	400	•••	400,628	360,763	373,102	349,172	
Rábi	•••	•••{	425,146	432,192	352,228 	371,360	
	Total	•••	825,774	792,955	725,825	720,532	

The reduction in the area of irrigation in the *kharif* was due to the early failure of the cotton crop owing to its having been eaten up, as is usually the case in hot weather, by grass-hoppers, a calamity which disheartened the zamindars and disinclined them to sow other crops. Only a small area of fodder crops was put down, though fodder was badly wanted, the zamindars holding off in the hopes of rain.

The influenza epidemic during October and November and the early failure of the supply in the river were responsible for the poor rabi crop.

6. The receipts amounted to Rs. 66,117 and maintenance charges to Rs. 6,265, showing a nominal profit of Rs. 59,852 against Rs. 52,541 in 1917-18 and Rs. 68,329 in 1916-17.

No boats are now plying for hire on the canal, the only navigation being raft traffic from the hills and boats for carriage of Government material, and a few boats plying in connection with the Flour Mills on the Main Branch.

7. Imperial.—The gross revenue was Rs. 28,75,154 and the working ringuish results based on collection—
Rabi, 1917-18.

Rs. 19,43,112 of the previous year. The decrease was due to the decrease in the area irrigated in both the crops under reference (rabi 1917-18 and kharif 1918) the former being due to the heavy rainfall in October 1917 which enabled the zamindars to put down larger baram area while the latter was attributable to the almost entire failure of the monsoon as mentioned above.

Contribution.—The net revenue received by the Patiala State on their channels on the Sirsa Brauch amounted to Rs. 1,97,075 or 16.98 per cent. on the capital cost invested, against an average of Rs. 1,62,968, or 14.04 per cent., for the triennium ending 1917-18, and Rs. 2,20,460 or 19.00 per cent. of the previous year.

8. (a) Agricultural and other conditions of the year.—The canal remained in flow for 320 days and was closed at its head for 36 days (16 days in kharif and 20 days in rabi). The supply was equal to the demand during, earlier part of the kharif but became insufficient towards the middle of September so that the kharif crops had to be matured and rabi crops sown on an insufficient supply. The cultivators gave the water to their kharif, hoping to sow rabi crops later, but owing to the influenza epidemic in October and November, which attacked 75 per cent; of the cultivators and caused the death of about 20 per cent, of them, the rabi crops could not then be sown fully, and by the beginning of December the supply of water was insufficient. Swarms of

the young crops during kharif as there was no grass tion, was the principal crop destroyed by them but ably. Sugarcane also failed as the seed became The whole of the area which was sown at the want wheat.

lire of the sugarcane crop the Principal of was approached and was good enough to vators as to what they should do to prevent mine, which threatened early in the same small area was put under fodder

very small area was put under fodder middle of August, partly from fear the crops during the long hot s'gambled unsuccessfully on folder crop was so serious trees and date-palms all cattle and goats, and from this cause.

granted remission in The failure in concencial rainfall

Read 13.62,157

- Liii) Towards the end of the year a new division with headquarters at Dadnpur was sanctioned for the control of the Headworks and Main Line. This Division was opened from 2nd April 1919 and should be of very great assistance by enabling the Executive Engineer, Karnal Division, to devote his attention to irrigation in the Karnal District. The irrigation in Karnal District on Sirsa Branch, formerly in the charge of the Executive Engineer, Hissar Division, will now be transferred to the Karnal Division, and this should have very beneficial results.
- (iv) A new and much simplified system of dealing with the rafting traffic at Headworks was sanctioned by the Local Government and was brought into force during the rafting season of the year under review. The timber is made up into rafts of a standard size and the charge is made per raft instead of checking dimensions of each single piece of timber. The revised method has been most beneficial to all concerned.
- (v) It has been decided to construct Government offices and residential quarters for the Executive Engineer at Robtak as the accommodation otherwise available is not suitable.

IRRIGATION IN NATIVE STATES.

Irrigation in Patiala State.—The irrigation in Patiala State from the Sirsa Branch during the year was 36,152 acres in kharif and 25.017 acres in rabi or a total of 61,169 acres exclusive of 468 acres; half of this area was remitted in kharif and half in rabi. The average area assessed for the two last triennia ending 1917-18 and 1914-15 were 72,551 and 66,667 acres, respectively.

Irrigation in Jind State.—The supply which the Irrigation Branch has undertaken to allow the Jind State is 353 cusecs, intended to irrigate an area of 60,000 acres annually. The area actually irrigated was 56,400 acres. The reduction in the area was due to the same causes as had reduced the area in British Territory.

The average areas irrigated during the two previous triennia, ending 1914-15 and 1917-18, were 64,058 and 60,602 acres, respectively. Besides the area recorded above an average of about 1,000 acres of irrigation is done in the Jind State from the Bhiwani distributary which is assessed at the water rates prescribed for British areas on this canal.

Maintenance and assessments on all Jind-State distributaries are controlled by State officials. The following table shows the working of the Jind State distributaries as reported by the State:—

	Particular	8.		1914-15,	1915-16.	1916-17.	1917-18.	1918-19.
	Recaipte.			Rs.	Rs.	Rs.	· Rs.	Rs.
Occupiers' Rates	•••	··· .		2,88,008	2,02,054	2,68,054	2,04,010	2,49,549
Miscellancous		•••	•••	6,088	5,678	5,300	4,015	2,738
		Total	•••	2,94,031	2,67,782	2,63,954	2,95,625	2,52,286
- W	orking expe	nece,					;	
Establishment	•••	•••	•••	7,817	7,807	10,491	11,3.0	12,014
Other expenses	•••	•••	•••	28,866	81,776	21,676	14,894	25,288
Occupiers' raics ;	paid into Er	ltish Tressury	***	1,31,000	1,31,000	1,31,000	1,81,007	1,31,000
	٠	Total		1,67,182	1,70,178	1,63,167	1,02,234	1,68,327
,	Profit	or loss .	•4.	+1,26,8 99	+97,559	+1,00,187	+1,36,891	+83,939

The above amount shows a profit of Rs. 83,959 against a profit of Rs. 1,35,891 in the previous year.

grass-hoppers ate up all the young crops during kharif as there was no grass for them to feed on. Cotton was the principal crop destroyed by them but jowar also suffered considerably. Sugarcane also failed as the seed became rotten owing to late sowing. The whole of the area which was sown at the proper time was put under barani wheat.

In consequence of the failure of the sngarcane crop the Principal of the Lyallpur Agricultural College was approached and was good enough to send an expert who advised the cultivators as to what they should do to prevent any further failure of this crop.

Notwithstanding the fodder famine, which threatened early in the crop and grew very acute later on, only a very small area was put under fodder crops and even this was not sown until the middle of August, partly from fear of the grass-hoppers, which were damaging the crops during the long hot and dry season and partly because the zamindars gambled unsuccessfully on the arrival of the monsoon. The failure of the fodder crop was so serious that the cultivators were driven to stripping kikar trees and date-palms all over the canal area in order to obtain food for their cattle and goats, and considerable damage resulted to the canal plantations from this cause.

Altogether nearly 27,000 acres of crops had to be granted remission in the kharif crop, or nearly 75 per cent. of the whole crop. The failure in the rabi crop was, however, exceedingly small owing to the heneficial rainfall received during the last two months of the crop.

The value of crops assessed to water rates amounted to Rs. 4,13.62,157 which shows that the canal is a very valuable asset to the country.

- (b) Nature and scope of new works contemplated and progress made on the preparation of new Projects.—(i) Project for the proposed new level crossing at Dadupur was held in abeyance on account of impossibility of obtaining iron work at a reasonable rate owing to the war.
- (ii) There are proposals under consideration for remodelling the Headworks at Tajawala but these were also held in abeyance for the reason given for
 .(i) above.
 - (iii) A project has been worked out for the substitution of minors direct water-courses for irrigation near Tajawala, but it is held up for want funds.
 - . (iv) The work of re-designing the existing old channels on scientific ples and gradually remodelling them is being carried forward systematical funds permit.
 - (v) The opening up of the Indri Singhoa Cut in the Indri Escape divert escapage water which has hitherto blocked the drainage of logged lands above Indri was also held up owing to scarcity of funds the proposals had been formulated and approved.

The construction of a new rest-house at Kharak on Butana Branch, received the approval of the Local Government, was also postponed

resting facts relating either internally or externally to the timber traffic at Jagadhri Railway Station has developed ring the last two years and this is now one of the most markets in the Province and very extensive additional made by the Railway to cope with it. This timber is Main Line of the caual from the Jumna river to the

the very heavy and unexpected flood of Outober 1917, the mass of sleepers lying at the river sides for removal replaced till late in 1918, so that up till about February rough the canal was at a standstill; after that it was difficult to cope with it, and it endangered the canal

lty of obtaining coal has considerably interfered with the required for works on the canal.

- (iii) Towards the end of the year a new division with headquarters at Dadupur was sanctioned for the control of the Headworks and Main Line. This Division was opened from 2nd April 1919 and should be of very great assistance by enabling the Executive Engineer, Karnal Division, to devote his attention to irrigation in the Karnal District. The irrigation in Karnal District on Sirsa Branch, formerly in the charge of the Executive Engineer, Hissar Division, will now be transferred to the Karnal Division, and this should have very beneficial results.
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Irrigation in Jind State.—The supply which the Irrigation Branch has undertaken to allow the Jind State is 353 cusees, intended to irrigate an area of 60,000 acres annually. The area actually irrigated was 56,100 acres. The reduction in the area was due to the same causes as had reduced the area in British Territory.

The average areas irrigated during the two previous triennia, ending 1914-15 and 1917-18, were 64,058 and 60,602 acres, respectively. Besides the area recorded above an average of about 1,000 acres of irrigation is done in the Jind State from the Bhiwani distributary which is assessed at the water rates prescribed for British areas on this canal.

Maintenance and assessments on all Jind State distributaries are controlled by State officials. The following table shows the working of the Jind State distributaries as reported by the State:—

,	Particulars.		1014-15.	1015-16.	1916-17.	1917-18.	1918-19.
	Recsipte.		Rs.	Rs.	Ra,	· Re.	Re,
Occupiers' Rates	•••		2,88,098	2,62,054	2,58,054	2,94,610	2,49,548
Miscellaneous		•••	£,038	6,678	5,800	4,015	2,798
	Total	•••	2,94,081	2,67,782	2,63,354	2,08,625	2,52,286
IVo	rking expenses.					}	
Establishment	••• •	•••	7,817	7,897	10,491	11,3.0	12,014
Other expenses	•••	•••	28,865	81,776	21,076	14,894	25,288
Occupiers' rates p	aid into Eritish Treasur	7	1,31,000	1,81,000	1,31,000	1,81,000	1,31,000
	Total	•	1,07,182	1,70,173	1,03,167	1,62,234	1,68,327
•	Profit or loss	•••	4-1,20,899	+97,569	+1,00,187	+1,86,391	+83,939

The above amount shows a profit of Rs. 83,959 against a profit of Rs. 1,35,891 in the previous year.

Irrigation in Bikaner State.—The Western Jumna Canal is intended also to irrigate 460 acres annually in Bikaner State from the tail of Hissar distributary. The areas actually irrigated were 267 acres in kharif and 11 acres in rabi or a total of 278 acres. This area pays the ordinary occupier's rates and is assessed by the Canal Department. The deficiency in irrigation was due to the same causes as operated in British Territory.

Irrigation in Kalsia State.—The irrigation in Kalsia State from Main Line of the canal was 1,100 acres in kharif and 1,291 acres in rabi or a total of 2,391 acres exclusive of 39 acres remitted in kharif and 14 acres in rabi.

This area also pays the ordinary occupier's rates and is assessed by the Canal Department. The average area assessed for the last 3 years has been 766 acres in *kharif* and 757 acres in *rabi* or a total of 1,523 acres.

SIRHIND CANAL.

(SUPERINTENDING ENGINEER-MR. E. R. FOY.)

- 1. (a) Imperial—The expenditure (direct and indirect) amounted to Rs. 64,048, but it was reduced to Rs. 57,474 by a credit of Rs. 6,574 on account of value of material obtained from dismantling the Lock gates of the Sutlej Navigation Channels. The heavy expenditure of Rs. 54,643 under the suspense account was necessary to create a reserve of stone at Rupar, to manufacture bricks and to bring on stock the above material of the Locks. The remaining expenditure was incurred on constructing the new Rohira and Kanganwai distributaries for the Maler Kotla State and new servants' quarters for Superintending Engineer's quarters at Ambala and on converting a foot bridge into a cart bridge at mile 73, Bhatinda Branch.
- (b) Contribution. The expenditure of Rs. 1,179 represented the share borne by the Signatory States, of the expenditure incurred on the Headworks and Main Line.
- 2. (a) Imperial.—The expenditure amounted to Rs. \$1,160 as compared with Rs. 70,432 in the previous year and was spent chiefly on improving distributaries by raising and widening sunken bridges; remodelling distributary head regulators and on other petty works such as raising mill shoots, improving minor buildings and rebuilding the notches of a fall at mile 76, Bhatinda Branch.
- (b) Contribution.—A sum of Rs 75,960 was spent, of which Rs. 70,635 represented scigniorage charges and the remainder was a small amount partly representing the share of the expenditure on the Headworks and Main Line and partly the expenditure which was incurred on minor improvements to buildings and on building gauge wells.
- 3. (a) Imperiol.—The expenditure was only Rs. 4,41,820 as compared with Rs. 5,31,468 in the preceding year. This appreciable drop was due to the satisfactory condition of the torrent works on which so much had been done in the last few years. Beyond the ordinary annual repairs, expenditure was also incurred under special estimates in putting patrol roads, canal and distributary banks into good order; on some special protection at the junction of the Sngh and Budki Torrents; and in bringing irrigating channels into efficient working order.
- (b) Contribution.—The expenditure of Rs. 1,30,99 against Rs. 2,28,437 in the previous year was incurred on the maintenance of the Native States' Branches and in the share of expenditure on the Headworks and Main Line. Here too the decrease results from smaller expenditure in the Rupar Division on repairs to torrent works.

Nature of the season, state of demand and supply—

Kharif, 1918.

Rabi, 1918-19.

4. The kharif season was remarkable for the almost total failure of the monsoon, the rainfall being generally less than half the normal. After the rain in April, which was over normal, practically no rain fell except in the third week of August. The figures by districts were—

	District.			Rainfall April to September.	Normal, April to September.
Ludhiana Ferozepore Native States	···· ·	•••	.	7 96 4·80 .9·80	16·81 11·84 15·54

This dry monsoon hit the cultivators hard because—as always happens in a year following one of good rainfall (such as 1917-18 was) – the people took no interest in early kharif sowings partly by reason of their being busy in harvesting the large rabi crop of 1917-18, and partly be cause having had a good harvest they trusted to luck to get another—consequently canal-irrigated sowings up to the end of June were abnormally low, but the demand for water became intense in July and continued so through August and September. The final kharif area was good although the poor monsoon had adversely affected the supply in the river. Rotational turns began a month earlier than usual, and there being no grass for cattle, water had to be used to mature the large kharif area for folder. Rabi sowings were consequently backward and were further delayed by the terrible influenza epidemic, which hid low the whole countryside, and such water as was available in late October and early November could not be used by the people to the best advantage. The subsequent winter rains were timely and slightly over normal over most of the tracts served by the canal Considering the adverse conditions at sowing time, and that there were no barani areas to pick up later, the area irrigated during rabi was satisfactory.

The canal was closed only 12 days in the whole year, of which 10 days were in the early months for lack of demand and 2 days after the rainfall of August. The canal ran throughout the rabi.

Rainfall.—The following table compares the mean rainfall of the year by seasons and districts over the irrigated tract with the average mean of 35 years :-

District.			RAII	Percentage of actual		
		Crop.	1918-19.	Average of 85 years.	to average of 35 years.	
Ludhiana	, <u>(</u>	<i>Kharif</i> , 1918	•••	7.96	16.31	
Luduiana	··· {	Rabi, 1918-19	•••	4.25	3.95	
Total	•••	•••		12.21	20.26	60%
Ferozepore		· Kharit, 1916	•••	4.80	11.81	
	· ſ	Rabi, 1918-19	•••	8.33	2.29	
Total	•••		<u>. </u>	8.13	14.18	58%
Native States	5	Kharif, 1918	•••	9.80	15.54	
-	{	Rabi, 1918-19	•••	2.68	3.20	
Total	580 ° 0 1	•••		12.48	18.74	67%

5. The following table compares the irrigation effected in each crop with the two previous friennia and with the figures of 1917-18:—

Rati, 1018-19.

Cror.			THE 3 YEARS	AREA IRRIGATED DURING		
		1914-15.	1917-18 .	1917-18.	1918-19.	
	•	Agres.	Acres.	Acres.	Aeres.	
	1		Barrisu I	BRANCHES.		
Kharif Rabi	••	887,284 550,578	277,062 612,229	207,435 341,299	908,510 581,365	
Total		B93,812	790,191	551,784	887,875	
	-		NATIVE STATE	ез' Вилиспев.	-	
Kharif Rabi	•••	185,659 293,026	- 196,205 301,837	168,368 211,702	218,910 318,616	
Total	}	478,685	498,042	380,160	537,526	
	! - ! i		BRITISH AND I	NATIVE STATES' ORFS.		
Kharif Robs		522,195 849,604	474,167 814,066	875,803 556,091	525,420 899,681	
Total	••• 1	1,572,497	1,288,283	931,894	1,425,401	

From the above statement it will be seen that with regard to irrigation the year under review was a very favourable one as compared with 19:7-18 and the two previous triennia. It appears desirable to remark here that the weather conditions were abnormal in 1917-18 when the rainfall was more than double the normal while the area irrigated was less than 3 rds the normal average. It will, therefore, be rather misleading to compare the figures of the year under review with those of 1917-18 and of the average of the triennial period ending 1917-18; the latter was also upset by the abnormal conditions of the former. However, for the whole canal the area irrigated was practically the same as in 1916-17 when the area irrigated was 1,425,740 acres, which has only been exceeded three times. During kharif sowings were retarded for the reasons explained in paragraph 4 supra and yet the area was the third highest on record the highest being in 1914-15 when 555,203 acres were irrigated, followed by 544,774 acres in 1916-17. The reason for the increase was the failure of the rains early in September 1918 whereby a large barani area was brought under canal irrigation.

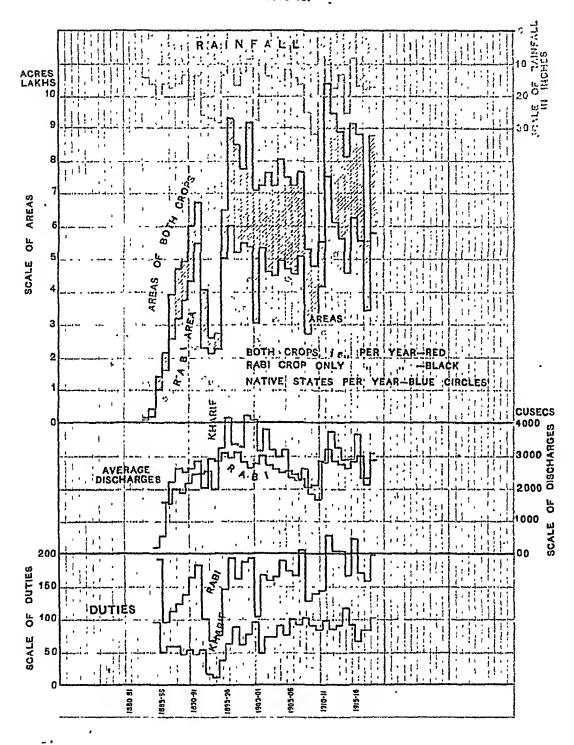
British Branches.—In the kharif season the area was slightly below the average of the triennium ending 1914-15 for the reason already given, i.e., of neglect of sowings early in the year. The rabi area of 581,365 acres was up to the average having only been exceeded four times, and the total for the two crops was satisfactory.

Native States' Branches—Did the best kharif on record but fell off somewhat in the rabi.

The Native States are entitled to 36 per cent. of the whole irrigation but they have actually done 37.71 per cent. during the year.

SIRHIND CANAL—BRITISH.

WORKING RECORD. 1918-19.



N. B .- The intercepts in the red area give the Kharif acreage each year.

The small arears of 1892 to 1896 were partly due to silt difficulties, but chiefly to heavy rain. The working is more or less unsteady always.

The discharges are measured in main line 26 miles from the head. Of the whole supply 36% goes to Native States, not included here; so that the discharges here shown are only 64% of the actual flow.

These States ought therefore to do areas equal to fiths of those shown above. The actual areas done for both crops are shown for comparison by blue circle, and it will be seen that owing to less efficient management they have done less than half the British, instead of Sc/64ths. In winter the whole river is taken in; in Kharif the supply is more than enough, but the demand is then always low.

6. The details of traffic in tonnage and receipts are shown in the following table:—

Parti	1017-18.	1918-19.			
Tounage carried				20,218	34,299
Value of tonnage		***		11,17,313	18,45,984
Toll receipts and raft dues	704	•••	<i></i>	16,905	17,892
Maintenance charges	•••	•••		7,553	3,909
Number of passengers car	ried			16,359	30,198

The large increase in the number of passengers carried was due to there being no long closures this year.

- 7. (a) British Branches.—The not revenue after deducting working expenses amounted to Rs. 16,85,848, giving a return of Rs. 6:56 per cent, on the capital cost. The corresponding figures for the previous year were Rs. 21,80,527 and 8:51 respectively. The decrease in the percentage was due to—
 - (a) the poor rabi area in 1917-18 collections for which were made in 1918-19;
 - (b) an uncollected balance of Rs. 1,52,022 for which the Native States were responsible.

If the latter had been paid into British Treasuries in time, the return for the year would have been Rs. 7:15 per cent. Even this figure would be the lowest for seven years past.

The working expenses were Rs. 11,81,865 or Rs. 72,623 less than in the preceding year, working out to Rs. 1:33 per acre irrigated against Rs. 2:27 the highest on record in the previous year.

(b) Native States' Branches.—The following table compares the figures for the present and provious years in collections, assessments, areas assessed and profits:—

		<u> </u>	AMOUNT OF REVENUE.			PROPIT ON	
. Y	EAR.	1	By colleg-	By assess- ment.	Arca assessd.	Collection.	Assess- ment.
, *************************************	_,	-4n y	Rs.	Rs.		Rs.	Rs.
1917-18	•••		22,01,911	17,15,525	379,080	8.50	5.88
1918-19	•••	•••	19,76,107	24,97,552	536,338	8:38	12.02
More or less	***	•••	2,85,837	+7,82,027	+1.57,258	0.82	+6.61

8. (a) Projects.— (i) The Sutlej Dam Project otherwise known as the Bhakra Dam Project.—The designing and estimating of the whole scheme was finished and the Project Division closed on 31st March 1919. The complete Project is now under the consideration of Government. The total cost, direct and indirect, and including interest at 5 per cent. during construction is estimated to be 1474 lahks and it is anticipated the scheme will pay 7 per cent. which is satisfactory considering that an expensive storage reservoir costing Rs. 3,93,74,490 has

to be made before water becomes available for irrigation purposes. The area of new irrigation expected annually will be 2,120,132 acres.

Discharge observations were continued at Bhakra for the Sutlej. A new recording station was started at Pang on the Beas in a situation similar to that at Bhakra. It is most fortunate that this was done in 1918-10 as we now have, for the lowest river supply on record, actual observed daily discharges, from which an accurate discharge curve has been plotted. We are now in a position to state with confidence the carrying capacity of the Beas under the worst conditions, occurring probably about one year in fifty, and can show that in the months of August when all space Sutlej water will be utilized for filling the reserveir there will be enough water in the Beas for all the canals of the Sutlej Valley series without material assistance from the Sutlej.

- (ii) A project for a kharif distributary from mile 31, left of the Sutlej Navigation Channel, to irrigate near Ferozepore, was under preparation, and the estimate was approaching completion. It is proposed to use the surplus water passed down the Sutlej Navigation Channel, which ordinarily runs to waste, to work some mills.
- (iii) Work on the Project for the Rohira and Kanganwal distributaries referred to last year was approaching completion. The Kanganwal will irrigate in the kharif of the current year (1919).
- (b) Areas of principal crops on British Branches.—Sugarcanc.—Area assessed 6,479 acres against 3,516 in the previous year. The fodder famine of 1918 resulted in the sale of fields of standing sugarcane at Rs. 250 per acre, as fodder, a remarkable source of profit to the owners, who received a record price without the trouble of harvesting or extracting sugar.

Cotton.—Area assessed 16,740 acres against 14,898 in the preceding year. American cotton was introduced on a small scale, an innovation which has borne fruit in 1919, in which an enormously increased area has been put under the crop.

Wheat.—Area assessed was 261,873 against 197,267 in 1917-18 (an abnormally low year) and 257,582 in 1916-17, a good average year.

(c) The agricultural conditions were favourable for irrigation operations but bad for areas unprotected by cauals. As already stated the rainfall in the monsoon months was from 1-3rd to half the normal. The rabi rainfall was timely and good and reduced remissions to a very low figure. The total area on which remissions were granted on the British Branches was 5,434 acres against 10,539 and 10,242 in the two previous years.

Influenza in epidemic form ravaged the whole tract served by the Sirhind Canal. It was at its worst for only a fortnight but the after-effects were felt for weeks, while the enormous fatalities sadly reduced the capacity of the people for utilizing the facilities for irrigation.

UPPER BARI DOAB CANAL.

(SUPERINTENDING ENGINEER-MR. F. T. BATES.)

1. The expenditure (direct and indirect) on works excluding

Capital Account — Suspense amounted to Rs. 10,646 against

Rharif, 1918. Rs. 29,450 in the previous year and was incurred on constructing quarters for Enropean

Upper Subordinates at Amritsar and for Zilladars, Munshis and peons at Jhedu.

The Suspense account showed a debit balance of Rs. 5,53, 23 as compared with a credit balance of Rs. 35,760 in the previouslycar.

2. Expenditure amounted to Rs. 90,768 against Rs. 69,860 in the previous year, and was incurred chiefly on improving the Kashmir canal, the Daftu road bridge on the Main Branch Lower, the Lashkari Nangal, Baggeh and Majitha-Hudiara drains and the Khaira distributary.

- 3. Expenditure amounted to Rs. 4,92,824 against Rs. 5,02,573 in 1917-18 and was incurred on ordinary annual maintenance, and on special repairs to the following:—River works, canal headworks, canal and feeders, pitching the side slopes of the Main Branch Lower, right bank, and repairs to the Hudiara Drain.
- 4. The total value of manufactures amounted to Rs. 6,25,006 as against Rs. 3,46.094 in the previous year. The increase was partly due to the higher cost of materials. The percentage charges realized on the value of work done amounted to Rs. 1,69,945 against Rs. 1.26,474 of the previous year. The profit resulting from stock transactions, selling at market rate as against purchases before the war, amounted to Rs. 2,87,975 which was credited to revenue. In addition to works of minor importance, a work of some magnitude was undertaken in the remod clling of the iron work of the Rasul Regulator and undersluices of the Lower Ibelium Canal. The former is being fitted with radial arm gates of a new type designed at the Workshops, while the latter are being fitted with a modified form of Stoney sluice gato. A considerable amount of work was also done for other Departments, more particularly for the Munitions board and Military Works. For the former a large quantity of transport wagon details, such as tail boards, dust caps, pipe boxes, etc., were manufactured, together—with Railway requirements such as dog-spikes, platelayers' spanners, etc.; while for the latter several sets of tube wells were manufactured, a large quantity of transway plaut, engines, armoured cars and motor cars repaired and sets of pankah pulling mechanism supplied. For the Buildings and Roads Brauch; several tube wells were made and several engines repaired.

In addition to the above, requisitions for tube wells from the Mayo Hospital, Lahore; Patiala, Kapurthala and Bahawalpur States; from several Railways, including the North-Western Railway, the East Indian Railway, the Eastern Bongal Railway and the Nushki Extension; several Municipalities; and from Baluchistan were met during the year.

Other Provinces also sought help in various ways. The North-West Frontier Province got a number of sets of distributary gates and gearing; Bengal and Bombay asked for preliminary designs and estimates for the Damodar river works and Sukkar Barrage, respectively, which were prepared and supplied; and the Mysore State asked for a design for gates for a high dam which also was worked out and supplied

Area irrigated— Kharif, 1918. Kabi, 1918-10. 5. The following table compares the area irrigated during the year with the average of the two previous triennia and with the figures of 1917-18:—

i		Average of 8	TRARS ENDING	AREA IRRIGATED DURING		
•	Cuor.		T914-15.	I917-18.	1917-18.	1918-19.
	· ·		Acres.	A cres.	Aures.	Acres.
Kharif	***	•••	550,379	588,340	555,771	524,888
Rabi		•••	611,568	625,344	588,750	540,161
	Total		1,161,047	1,163,684	1,114,621	1,065,049

The deficiency in irrigation during 1918-19 was due chiefly to the failure of the rains in 1918 resulting in the restriction of wadh irrigation and to the river remaining very low throughout the year.

Nature of season and state of demand and supply —

Kharif 1918.
Rabi, 1918-19.

6. The mean rainfall is compared with the average of the previous 3 years in the following table .—

_				1918	-19.	A VERAGE OF	
	Distric	T.		Kharif.	Rabi.	Kharif.	Rabi.
Gurdaspur	144		•••	Inches.	Inches.	Inches.	Inches.
Amritsar Lahore	•••	•••		7·27 7·40	5·11 3·42	22·68 19·32	4·05 2 24

The monsoon of 1918 was an extremely weak one. There was light rain during April but no rain during May and only light showers during June and July.

Real monsoon conditions did not set in until the middle of August, and ended as early as the 1st week in September.

During the monsoon months, May to September, the total rainfall at Madhopur was only 20.2 inches against an average for the past 15 years of 40 inches.

There was little or no rain during October and November and only light rainfall in December. In January there was good rain.

The river Ravi was abnormally low during the monsoon. There were only 3 occasions on which the Mukesar gauge registered over 10 feet and the maximum flood reading was 12.4 feet on the 20th August 1918 as against 21 - feet during 1917.

7. The net income (direct and indirect) amounted to Rs. 37,84,114

Financial results based on collections—
Rabi, 1917-18.

Kharif 1918

equivalent to 16:89 per cent. on the capital invested compared with 16 52 per cent. of the previous year.

The uncollected balance of occupiers' rate was Rs. 43,256 against Rs 36,969 at the end of the previous year. Remissions of water rate amounted to Rs. 41,237 compared with Rs. 3,04,973 of last year.

The area for which remissions were granted was 20,534 acres compared with 67,237 acres in 1917-18 and was due largely to the damage caused by insects owing to insufficiency of moisture.

8. (a) Duty.—The average duty secured on the supply utilized was 96 acres in tharif and 205 acres in rati as against 132 acres and 267 acres, respectively, of the previous year.

The canal was closed from 31st January 1919 to 15th February 1919, when all falls were unwatered and repaired where necessary.

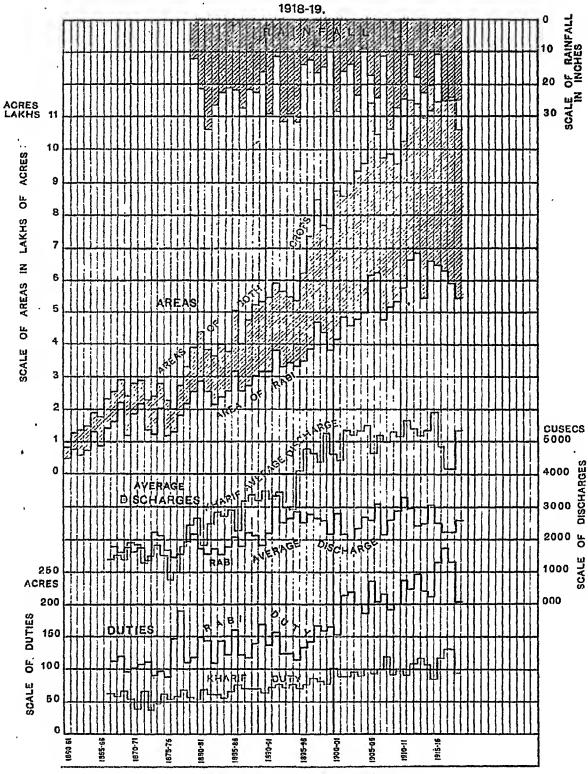
In addition there were minor closures for a few hours each which were made during floods in the river to prevent shingle and timber entering the canal.

(b) Principal crops.—The areas of the principal orops grown during the year are compared in the following table with those grown in the provious year:—

	Name of crop.					1918-19.,
					'Acres.	Acres.
Wheat	•••	•••	•••		208,416	226,970
Barley		•••	•••	•••	7,181	8,044
Rice	***	•••	·	·	70,054	66,204
Maize		•••	•••	}	-49,214	68,872
Millets	101	· •••	•••		104,914	121,666
Cotton	•••	***	•••	}	134,189	137,084
Sugarcane	444	***			48,154	561,679

UPPER BARI DOAB CANAL.

WORKING RECORD.



N. B .- The intercepts in the red area show the Kharif acreage each year.

The discharges are measured at canal head and are averages for each crop.

The duties are derived from these areas and discharges.

Remarks.—The Kharif duty is fairly uniform and increasing slowly.

The Rabi duty is more irregular, due to variation in demand, but is increasing recently.

The Rabi supply decreased fairly steadily from 1891-92 to 1902-03, but nevertheless the areas increased owing to higher duty.

The Kharif supply has increased since 1894 very considerably, owing to the capacity of the canal being enlarged.

Usually the whole of the river winter supply is taken in for the Rabi crop, but after March and up to September the river supply is in excess of requirements.

Area under wheat is about 10 per cent. more than that of previous year.

(c) Agricultural conditions.—The year was unfavourable for agriculture. Owing to the failure of the mousoon there was very little barani area sown during the kharif and owing to early cossation of the monsoon in September and lack of rain during November and December the area sown barani and wadh irrigation during the rabi was also small.

The canal was below indent from 11th September to 25th March 1919

- (d) New works contemplated—(i) It is probable that deeper tube wells will have to be put down in connection with the Hydro-Electric subsoil pumping scheme in Amritsar as a result of the failure of the monsoon rainfall of 1916. The supply obtained from the existing wells has fallen off to an extent totally unexpected.
- (ii) Radial Arm Gates, Madhopur Inlet.—An estimate has been prepared for fitting the remaining bays of the Inlet with Radial Arm Gates.
- (iii) Pitching Main Branch Upper.—Proposals have been under consideration for extensive pitching with boulders of the Main Branch Upper to prevent bank erosion.

LOWER BARI DOAB CANAL.

(SUPERINTENDING ENGINEER -MR. R. CANNELL.)

1. The total expenditure (direct and indirect) amounted to Rs. 1,84,649, bringing the total outlay to date to Rs. 2,26,46,199.

Rharif, 1918-19.

The expenditure was incurred principally on the following works:—

New Divisional staff quarters at Balloki and Khanewal; rest-houses at Chugatta and Akil (Tulamba distributary); subordinates' quarters in the Montgomery and Khanewal Divisions; l'atwarkhanas; Tulamba distributary with its minors; Chak Shahana distributary; and water-courses (cost recoverable from settlers) on the Kalasan, Ganji Bar, and Tulamba distributaries, for incoming colonists; and culverts on the water-courses of the Chichawatni distributary.

More money could not be spent with advantage as labour was scarce and wages and rates high. Extensions of Government channels and construction of water-courses kept pace with colonization.

On water-courses Rs. 98,230 were spent, bringing the total expenditure to date to Rs. 13,23,692. The recoveries effected from the zamindars amounted to Rs. 1,37,145, but this was the first year of recoveries under the new procedure, and it does not represent the average annual recovery estimated as necessary to extinguish the debt in the course of a certain period.

Contribution works.—The following works were carried out through the agency of the Canal Department:—

- (a) Irrigation channels and other works connected therewith were constructed for Rai Bahadur Ganga Ram, C.I.E., M.V.O., the lessee of the Renala and Khokhar lift Irrigation Schemes, and for Major D. Vanrenen, the lessee of the Renala estate, costing Rs. 1,26,268 and Rs. 9,682 respectively.
- (b) A well was constructed at a cost of Rs. 1,508 for the 32nd Lancers' Horse breeding Farm, Blairpur, near Montgomery.
- (c) Chichawatni Mandi bridges and metalling ramps, costing Rs. 8,403.
- (d) An 8 feet diameter briokwork well was built for the 36th Cavalry in village 26 of the Jahanian distributary.
- (c) A plantation minor was also constituted for the Forest Department from R. D. 8,900 of 3-L Minor, Forest distributary.

The total expenditure, amounting to Rs. 1,03,897, covered the building of drains at the new caush station at Balloki, write back of "capital" expenditure on buildings to "Revenue" in these cases in which now buildings were sanctioned to replace those which were of a temporary nature; instituting new plantations and avenues;

alterations and extensions of irrigation channels; constructing boundary road culverts; and improvement of drainages; as also the tail outlet clusters of distributaries and other small masonry works for improving the distribution of water.

3. The expenditure of Rs. 4,56,034 was incurred on ordinary maintenance and Repairs.

Main Line distributaries, buildings and plantations, and special repairs to and remodelling of the Balloki discharge flume, and building artificial berms to hold the rising supplies in the Main Line and in some of the distributaries.

Nature of season and sinto Of demand and supply—

Kharif, 1918.

Rabi, 1918-19.

4. The canal was in flow for 305 days (166 days during *kharif* and 139 days during *rabi*) against 323 days in the previous year.

The demand for canal water was keen throughout the year, rainfall being scanty, especially during the kharif and the first half of the rabi seasons.

Owing to shortage of water in the rivers, and to the deficiency of the monsoon rainfall a great deal of water was applied to watering the cotton crop which would otherwise have been utilized for sowings of the following rabi erop: but, in spite of this, the latter showed an increase over the previous year. During the first half of the rabi season practically no rain fell and the river supplies were low, but timely rainfall in January saved the situation, which would otherwise have been critical.

The supply rose to 5,131 cusecs for a short period against a designed capacity of 6,750 cusees at canal head.

The actual average rainfall is compared below with that of the previous year:—

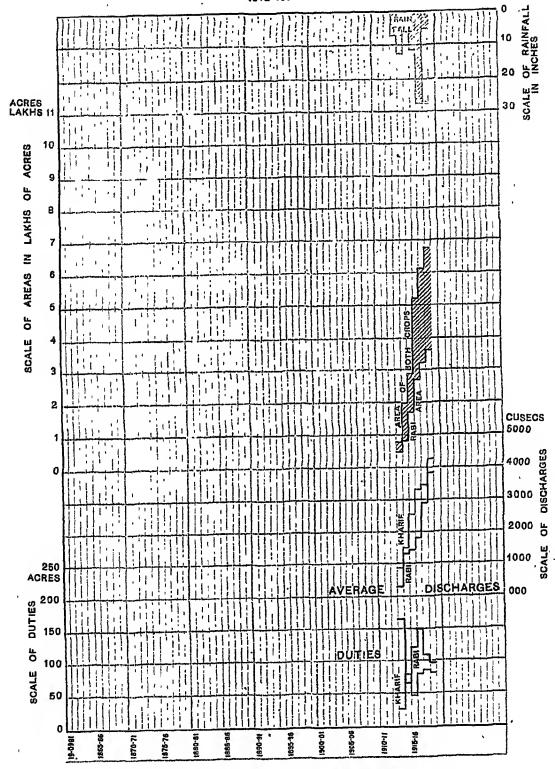
		1918-19.		1917-18.	
-			•	`	
			Inches.	Inohes.	
T . 1 D'-4-1-4	•••	***	8.66	38·86	
Montgomery District	•••	•••	4.48	80.06	
Multan District	•••	***	4.64	18.76	

5. The following table compares the areas irrigated each year since the commencement of irrigation on this canal, with the area forecast for each year in the Project Estimate:—

			ACTUAL.		As estimated in the
YEAT	z. ¯	Kharif.	Rabi.	Total.	Project Estimate (annual).
		Acres.	Acres,	Acres.	Acres.
1913-14	••• }	19,996	53,582	73,578	•••
1914-15		106,802	82,902	189,204	250,000 .
1915-16	•••	114,974	168,320	283,294	450,000
1916-17		248,443	266,493	514,936	650,000 .
1917-18		296,526	325,074	621,600	871,308
1918-19		325,593	352,411	678,004	· 871,308

LOWER BARI DOAB CANAL.

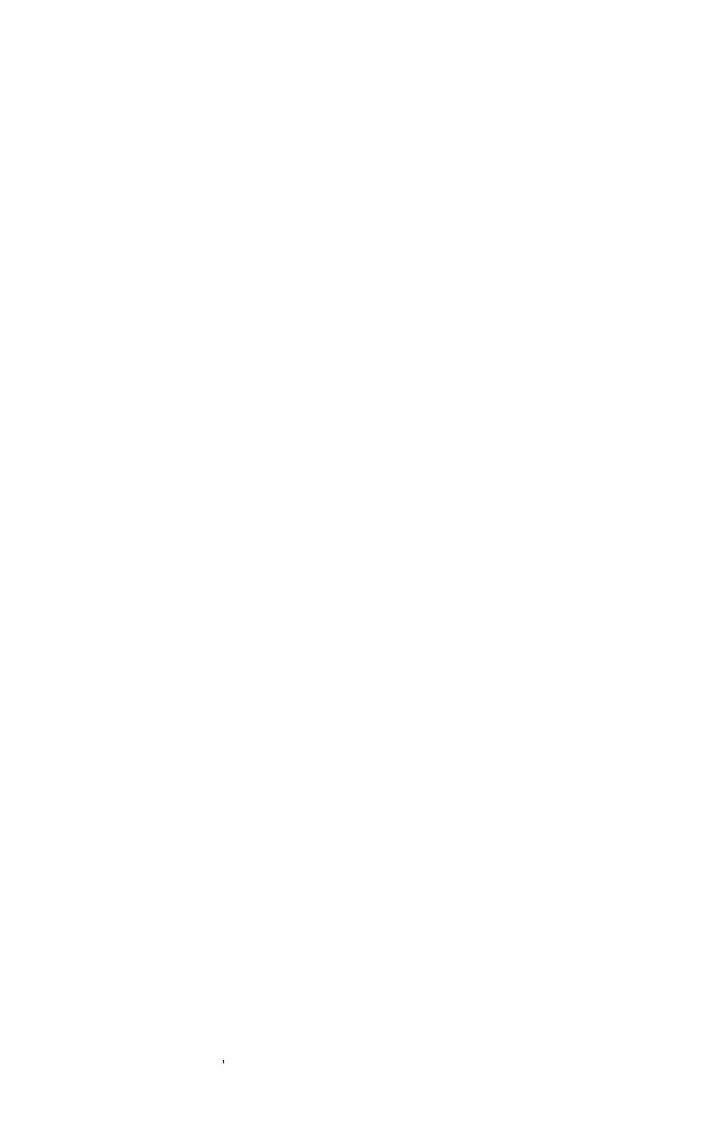
WORKING RECORD 1918-19.



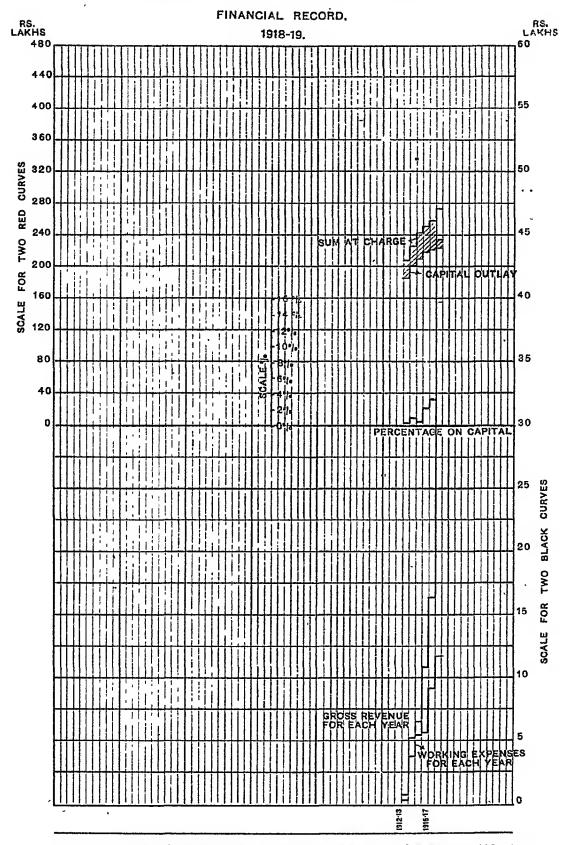
N:B.—The intercepts in the red area show the Kharif acreage each year.

The discharges are measured at canal head and are averages for each crop.

The duties are derived from these areas and discharges.



LOWER BARI DOAB CANAL.



N. B.—The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts between the black curves give the net income each year. Construction commenced in 1907 and the canal was opened in 1913.

This canal being one of the triple project canals its financial record, considered alone, is largely fictitious. The financial record of the triple canal project as a whole is shown on a separate diagram facing page 26.

Detail of irrigation in 1918-19, for old and new villages separately in each Division, is given below :-

Division,		Ola.		New.	Total 1918-19.
			Acres.	Acres.	a Acres.
Balloki	•••		42,095	64,938	107,028
Okara	***	**-	21,707	208,773	230,480
Montgomery	•••	••••	11,841	197,213	209,054
Khanewal	•••	•••	13,799	117,644	131,442
	Total		89,441	588,563	678,004

The progress of canal irrigation, as remarked in the report for 1917-18, is a year behind that of the Project Estimate, owing chiefly to the Upper Jhelum Canal having been opened a year later than had been anticipated, and also to the backwardness of colonization. A very hopeful feature is the popularity of the kharif crop resulting from the high prices ruling for cotton. The canal, as remarked by the Cotton Commission, promises to be a first class kharif canal and this feature is likely to reduce the demand for the seanty water supply available in the winter months. The development of irrigation has been retarded by the fact that in consequence of the recommendations of a Conference of Civil and Canal Officers at Lahore in 1911 the distributaries of this canal were constructed to an aggregate capacity only four-fifths of that to which they should have been designed, so that they could not dispose of the full supply which the canal itself had been designed to earry. This mistake is now being rectified by enlargements of the capacities of the distributaries.

- Financial results based on collection. Rabi, 1917-18. Kharif, 1918.
- 6. The gross receipts amounted to Rs. 46,93,839, the working expenses to Rs. 11,71,904, and the net revenue to Rs. 1317-18.

 Rs. 35,21,935. The receipts were about 28 lakhs more than those of the previous year, the increase being due to-
 - (a) the increase of about 2 lakhs acres in the area assessed during rabi. 1917-18 and kharif, 1918, revenue for which was realized during the year under report;
 - (b) the increase of about Rs. 97,000 under miscellaneous receipts from water power, etc.;
 - (c) the increase of about Rs. 22,61,300 realized from sales of waste lands on which the canal received a credit at 4 per cent. per annum of Rs.90,452 more than last year;
 - (d) the credit of Rs. 17,10,221, on account of the land revenue and malikana in the Montgomery District for this year and the six years provious to it, which has only been given during the yoar under review.

In the previous year the net rovenue gave a return of 5.3 per cent. on the capital invested but this year the roturn has gone up to 16.3 per cent.

7. (a) Duty. .. The duties on areas irrigated per cuseo of average supply measured at canal head and at distributary heads, General remarks. respectively, compare as follows with those of the previous year :- ' .

	Кнапір	DUTY	Rabi	DUTY
Year.	At canal head less escapage.	At distributary head (average).	At canal head less escapage:	At distributary head (average).
1917-18	£7 ·	<u>-</u> 107	105	136
1918-19	71"	· 87	94	115

The low duties were due to the temporary nature of allotments over about 50 per cent. of the area so far distributed. Temporary cultivators do not use water economically. The supply has not been restricted as it is considered sound to supply water abundantly to colonists who, in addition to the many other difficulties attendant on the opening of a new colony, are faced with the task of reclaiming inferior soils which require to be worked up to a good tilth before they can grow crops successfully.

- (b) Remissions.—The area remitted amounted to 131,817 acres (66,109 acres in kharif and 65,708 acres in rabi) mainly due to—
 - (i) free crop under tenancy rules and not for crop failure, and (ii) failures of crops.

The remissions under (i) above amounted to 56,249 acres (19,814 acres in kharif and 36,435 acres in rabi) and require no explanation.

As to (ii) above the chief causes of remissions were short supply in certain "chaks," bad germination or cultivation, bad soil and late sowing, etc. The principal crops affected were rice, cotton, sugarcule, maize, jowar and chari in the kharif season and wheat, barley, gram, toria and senji in the rabi season.

(c) Progress of colonization.—The following table gives the total culturable crown waste (allotable) area on the canal and the area allotted permanently and temporarily at the beginning and end of the year:—

Area allotted to	Arra allo	ALLOTTED TO BND OF 1915 19.		
1918, permanent and temporary.	Permanent,	Temporary.	Total.	
Acres. 817,662	Acres. 480,790	Acres. 453,273	Acres.	
	nd of 31st March 1918, permanent and temporary. Acres.	Address. Acress. Address. Acress. Acress.	Add of Slat March 1918, permanent and temporary. Permanent, Temporary. Acres. Acres. Acres.	

Great assistance to the working of channels was afforded by the large increase in temporary allotments, permauent allotments being not adequate.

In view of the enormous increase in the profits and value of land since 1914 a differential scale of "Malikana" has been sanctioned for temporary cultivation varying from Rs. 2 to Rs. 16 per matured acre, at the discretion of the Colonization Officer, according to the quality of the land.

The market value of the land is rising, the highest price paid in March 1919 at an auction being Rs. 1,018 per acre.

- (d) The increase in area under American cotton was substantial, and with the improved supplies of the current kharif a still more marked increase may be confidently anticipated. During kharif 1919 areas of 235,000 acres of American and 24,500 acres of "desi" cotton have been booked, and the former exceeds by 57 per cent. the future average annual area of 150,000 acres estimated at page 22 of the Report of the Indian Cotton Committee.
- (e) The working of the canal, generally, proved satisfactory and the Colony staff gave every possible assistance by allotting unoccupied areas. As the Main Line of the canal will soon be running with its full capacity, every acre of culturable land, good, bad and indifferent, requires to be occupied. The barren aspect of inferior soils yields to good cultivation and to an abundant supply of the fertilizing flood water of the river Ravi. The principal working feature of the year was the running of increased supplies in the Main Line and the forcing up of supplies in all distributaries with a view to their being able to carry the supply represented by the full capacity of the canal. There have, on the whole, been very few complaints of unsatisfactory water supply, but a few villages at the tails of channels were poorly supplied, in comparison with villages lying nearer the sources of supply, these shortages being due to defects in "command" and to breaches of banks where berms had not formed.

UPPER CHENAB CANAL.

(SUPERINTENDING ENGINEER-Mr. A. R. MURRAY.)

1. The expenditure (direct and indirect) amounted to Rs. 1,33,866, but the recovery of Rs. 58,499 effected from the cultivators on account of the cost of water-courses, and a credit of Rs. 77,214 under Suspense (Rs. 62,416 for stock issues to works and Rs. 14,79 for stock sales), as well as receipts of Rs. 4,192, on Capital Account, reduced it to a credit balance of Rs. 6,039. This brought the total outlay to

Rs. 14,79 for stock sales), as well as receipts of Rs. 4,192, on Capital Account, reduced it to a credit balance of Rs. 6,039. This brought the total outlay to the end of the year to Rs. 3,57,69,507 as against Rs. 3,57,75,806 to end of 1917-18. No large works were carried out. Expenditure was incurred mainly on construction of quarters for establishment, distributary channels of the Nokhar Branch, and minor masonry works, of which two foot bridges on the Main Line Lower were the most important.

- 2. The expenditure amounted to Rs. 30,660 against Rs. 11,325 in the preceding year. No works calling for special mention were carried out.
- 3. The expenditure amounted to Rs. 6,23,964 against Rs. 5,43,107 in the previous year. Repairs to the floor, downstream of the undersluices at Merala, were effected at a cost of Rs. 40,000, and a considerable quantity of work was done in improving the condition of canal and distributary banks. The soil of which the banks are composed is a stiff sour clay impregnated with salts, and the margin of width provided for natural berm formation in the canal is generally insufficient. Steps were taken to induce berm formation where such had not already taken place, and efforts were made to staunch banks by means of silt from berms already formed. A good deal of work was also done in the way of consolidating and grading banks.

Nature of seasons and state of demand and supply —

4. The kharif season was not a favourable one owing to deficient rainfall, more especially at the time when rice was sown.

Kharif, 1618. Rabi, 1918-19.

In the rabi season timely rainfall, during the maturing period, benefited both irrigated and unirrigated crops substantially.

At Gujranwala 8.83 inches of rainfall were recorded during *kharif*, and 3.92 inches during *rabi*, as compared with averages of 22.93 inches and 3.97 inches for the last three years.

Demand for canal water was generally keen throughout the year. The canal was in flow for 169 days during kharif and 138 days during rahi. Rotational working of the linked canals was enforced from the 1st October.

Area irrigated— Kkarif, 1918. Rabi, 1918-19. 5. The following table compares the areas irrigated during the year with preceding years and with the project forecast:—

-		ACTUAL.			Project fore-		
•	YEAR.		Kharif. Rabi,		Total.	cast.	
		·	Acres.	Acres.	Acres.	Acres.	
1914-15			121,189	90,693	211,882	350,000	
1915-16	•••		159,152	165,910	325,002	500,000	
1916-17	, 		285,917	151,500	487,477	048,367	
1917-18			245,110	187,825	382,985	648,867	
1918-19		•••	204,694	222,170	426,864	648,867	

Of the total area irrigated 399,005 acres were in the old proprietory villages and 27,859 acres in Colony villages.

The rabi figures showed an appreciable improvement over those of previous years, but the kharif figures were disappointing. The poor results during kharif were attributable partly to deficient rainfall and partly to the fact that the kharif Full Supply Factor, on which the capacities of the distributary channels have been based, had been wrongly calculated in the Project Roport for the class of crop grown.

Delay in the construction of watercourse systems, pending final settlement of the complicated question of canal irrigation of well areas in certain zones, also militated against development of irrigation.

6. The gross revenue (direct and indirect) amounted to Rs. 19,87,835, the working expenses to Rs. 12,80,996, and the not revonue to Rs. 7,06,339, or 1.97 per cent. on the capital outlay.

As remarked in last year's administration roport the Upper Chenab Canal is, in great measure, a feeder channel for the Lower ari Doab Canal, so that, as a commercial proposition, it cannot be altogether judged by its own financial results.

7. During the course of the year the Merala Timber Depôt was brought to completion and collection of timber was started on a small scale. The Canal Railway line between Merala and Sambrial has not, however yet been taken over by the North-Western Railway.

The Aik Nallah was surveyed with a view to preparation of a report on flood restriction and utilization of the waters of the Aik.

The year was a comparatively dry one and consequently no increase in oversaturation of the lands adjoining the main canal was noticeable. The important question of drainage of these lands engaged attention, and a soheme for clearing the channels of the Palkhu Nallah system and constructing seepage drains along the main canal was prepared.

During the autumn the influenza epidemic almost paralyzed operations. As an instance of its severity it may be mentioned that, for a time, during November, practically the whole of the regulating establishment at the Headworks was placed hors de combat, and the Military authorities at Sialkot had to be asked for assistance, which they kindly rendered in the shape-of a detachment of Sappers and Miners.

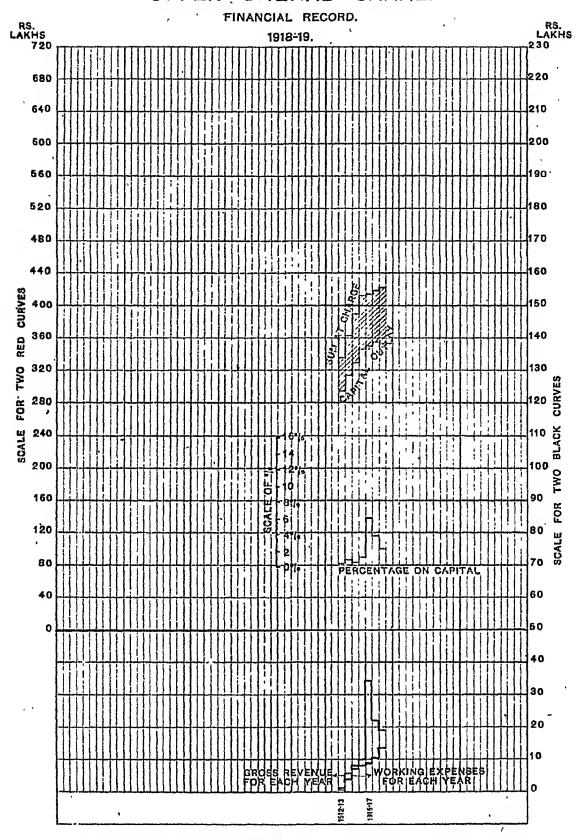
There was marked scarcity of labour during the winter season, for which the influouza epidemic was probably largely to blame, and labour rates showed a marked upward tendency.

LOWER CHENAB CANAL.

(SUPERINTENDING ENGINEER-Mr. J. W. B. LOUGHRAN.)

- 1. The expenditure (direct and indirect) amounted to Rs. 7,581, but as the canal received a credit of Rs. 29,936 on account of stock transactions under the Suspense account the net expenditure showed a oredit balance of Rs. 22,355. This reduced the total outlay from Rs. 3,25,18,571 at end of 1917-18 to Rs. 3,24,96,216 to end of the year under review. The small expenditure was incurred mainly on constructing Patwarkhanas and fixing Kennedy Gauge Cutlets, and the credit balance resulted from reduction of stock and tools and plant, the former by issue to maintenance and repairs and Taccavi works, and the latter mainly by sale to the Army Department and Munitions Board for Mesopotamia and elsewhere.
 - 2. The expenditure amounted to Rs. 1,80,337 and was spent on a large number of small works. The bulk of it, however, was incurred on improving the drains in

UPPER CHENAB CANAL



N. B.—The intercepts in the red area show arrears of interest which, added to the capital, give the sum at charge.

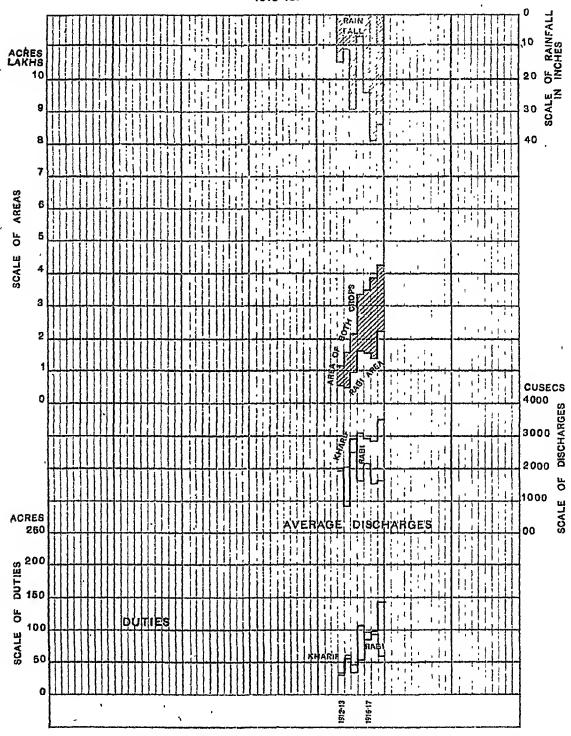
The intercepts between the black curves give the not income each year.

Construction commenced in 1905 and the canal was opened in 1912.

This canal being one of the triple project canals its financial record, considered alone, is largely fictitious. The financial record of the triple canal project as a whole is shown on a separate diagram facing page 26.

UPPER CHENAB CANAL.

WORKING RECORD, 1918-19.



N. B.—The intercepts in red area give the Kharii irrigation each year. The discharge are measured at Merala the head of canal and give averages for each crop.

The duties are derived from these areas and discharges.

the Hafizabad tract, and in improving the distribution of water from the irrigating channels of the canal. Round about Hafizabad the country, during the year under report, was drier than usual, the area water-logged being small. This was partly due to the poor monsoon and partly to the influence of the surface drains that have been constructed by this Department. Rainfall appears to play an important part in the water-logging of this tract.

- 3. Expenditure amounted to Rs. 8,67,233, a normal figure, and was incurred on the annual maintenance of channels, masonry works, buildings and on repairing Bays Nos. 4, 5 and 6 of weir at Khanki, and shanks of Spurs G, H and E, renewal of Railway track at Sangla; and strengthening and widening banks of branches and distributaries.
- 4. (a) The kharif season was a dry one. The demand for canal water was, in consequence, very keen and the defects in the distributing systems were brought into prominence. On channels provided with Kennedy Gauge Outlets there were few complaints and defects were easily adjusted, but on channels not so provided the distribution was inequitable and on some channels tatils of outlets had to be enforced. The rabi rainfall was poor but very beneficial to the standing crops. The river supplies during the rabi season were, on the whole, satisfactory, though not abundant.

The canal ran for 171 days in *kharif* and 175 days in *rabi* and was closed at the head for 12 days in *kharif* and 7 days in *rabi*.

There were very few floods in the river Chenab at Khanki during the year, and they were of moderate volume. The largest flood occurred on 5th and 6th April 1918 and amounted to 169,000 cusees.

(b) Rainfall.—The following table compares the rainfall of the year under review with that of the previous three years:—

Crop.	 Lyallpar District.	Jhang District,	Gujmnwala District.	Remarks,
Kharif, 1918 Rabi, 1918-19	 Inches. 4.62 2.05	Inches. 5.91 2.08	Inches. 8:01 3:07	
Total for year	 6.67	7-90	11-18	
1917-18 1916-17 1915-16	 24·10 12·44 2·28	25·13 9·62 2·92	29·57 21·61 5·15	•

5. The following table compares the irrigation with the averages of Irrigation—

The following table compares the irrigation with the averages of the two provious triennia and with the figures Rharif, 1918.

Rabi, 1918-19.

Cnor.		Average of the 3 years ending		AREA IRRIGATED DURING		
• .	•		1014-15.	1917-18.	1917-18.	1918-19.
	,		Aores.	Acres.	Aores.	Acres.
Kharif Rabi	****	•••	724,862 1,541,143	608,231 1,584,413	727,281 1,549,844	795,545 1,543,053
	Total	·	2,266,005	2,282,644	2,277,125	2,339,198

Of the area irrigated 419,186 acres were in old villages and 1,920,012 in Colony villages.

The figures for the year, as well as for the *kharif* orop, were the largest ever recorded. The slight decreases in the *rabi* figures as compared with the figures of 1917-18 and the preceding triennium was attributable to the following causes:—

- (a) Deficiency of rainfall during sowing time.
- (b) The rotational closures being commenced during the critical period of wheat sowing.
- (c) The Influenza epidemic, which was severe, and which prevented Zemindars from preparing their fields and sowing to the same extent as usual.

The kharif duty worked out to 84 acres and the rab duty to 211 acres as compared with 95 acres and 197 acres in the previous ye.

Remissions.—In the kharif season 6,353 acres were remitted and in the rabi 3,987 acres, or a total for the year of 10,340 acres against 11.910 acres in 1917-18. These remissions included 396 for kharif and 14 acres for rabi under Tenancy rules. Owing to the dryness of the kharif season insects were more active than usual and the bulk of the remissions for that crop was due to them. In the rabi season bad germination accounted for 1,407 acres.

6. The net revenue amounted to Rs. 1.42,49,271, giving a return of 43.85 per cent. on the capital outlay of Rs. 3,24,96,216 to the end of the year.

 Similar details for the previous year are:
 Rs.

 Capital outlay
 ...
 ...
 ...
 3,25,18,571

 Net Revenue
 ...
 ...
 ...
 ...
 1,28,02,664

 Percentage on Capital
 ...
 ...
 ...
 39:37 per cent.

This favourable result was mainly due to—

- (a) the record area irrigated during kharif 1918;
- (b) a deduction of Rs. 8,34,000 made in 1917-18 for cost of Civil Administration in the Lyallpur District which the Civil Department omitted to make during the two years previous to it and which, in consequence, affected the figures of 1917-18, whereas no such deduction was made during the year under report;
- (c) a greater area of higher rated crops having been matured during the rabi crop of 1917-18 and kharif 1918.

The accumulated net profits after defraying interest charges have increased from Rs. 13,88,42,183 to Rs. 15,19,86,744 against a capital of Rs. 3,24,96,216 invested at end of the year.

7. The operations of the year were limited by the need for severe economy on account of the War. Only those works were carried out that could not be delayed. The cost of materials was high and labour scarce and expensive.

Alternative estimates were prepared for raising the weir at Khanki to various levels. The object of this is to ensure better control and command of the river at Khanki for regulation and other purposes. At certain stages of the river supply command of the river is almost entirely lost and this leads to heavy shoaling in undesirable places in the river bed and silt troubles in the canal.

An estimate was also prepared for replacing the out-of-date gates and gearing of the undersluices by modern appliances, to reduce the time and labour now spent on working them. This is an important and urgent work now as the present system of regulation requires the undersluices to be used more frequently than in the past.

The next urgent necessity is the alteration of the regulator cills. At present the river cill does not reach the level to which it should rise to meet present regulation needs and, in consequence, when the river levels are high some of the gates of the regulator have to be closed down entirely. This causes swirls in the canal and the concentration of the canal supply through a part of the regulator must cause silt to enter the canal. The needs of different seasons are conflicting. The kharif requires a high cill while the rabi requires a low one.

UPPER JHELUM CANAL.

(SUPERINTENDING ENGINEER—MR. N. WHITE.)

- 1. The expenditure (direct and indirect) was more than balanced by realizations on account of sale of Tools and Plant rendered available by the completion of all important works. The capital account, therefore, showed a credit balance of Rs. 37,810 which reduced the total outlay to the end of the year to Rs. 4,40,93,973. The principal works carried out were:—Constructing beldars quarters at Mangla, and inspection house, bridges, minor channels, water-courses and culverts. on the Gujrat Branch; seepage drains along the Main Canal to reduce water-logging; and excavating a cut below the Shadiwal weir to improve the outfall of the Bhimber torrent.
- 2. The expenditure amounted to Rs. 30,067 and was incurred mainly on constructing drains to protect the Canal cut at Mangla and fixing sluice valves in the Main Canal syphons to scour the syphon barrels after floods.
- 3. The expenditure of Rs. 2,78,322 was incurred mainly on ordinary maintenance and repairs; no heavy damage occurred and the expenditure was, therefore, only about two-thirds of the previous year.

Nature of senions and state of domaid and supply—
Kharif, 1918.
Rabi, 1918-19,

4. The following table compares the rainfall registered during the year with the average of past years:—

. '	RAINFALL.			Average	,A.d.)	
Station.	Kharif, 1918.	Rabi, 1918-19.	Total.	of past years.	Rumanks	
Mangla Chillianwala Wasu Busal Blachar Pauranwala Karariwala	Inches. 19·0 14·1 (11·7 10·0 6·8 12·3 - 13·9	Inches, 5·8 3·3 4·0 4·5 5·3 4·4	Inches. 25.4 17.4 15.7 14.5 12.1 16.7 19.0	Inches. 31.8 19.6 18.0 14.1 20.5 18.9 15.6	For 8 years. For 2 years. Ditto. Ditto. Ditto. Ditto. Ditto.	

In the irrigated tract the rainfall was poor especially in the kharif season and in the early part of the rabi season.

The demand throughout the kharif was fairly steady and the supply was sufficient except at the beginning of the rabi season when the Jhelum river was unusually low.

Area irrigated— Kharif, 1918 Rabi, 1918-19.

5. The areas irrigated and 'assessed compare as follows:—

ŧ				. 1917-18.			1918-19.		
	Division.		Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.	
					Area ir	rigated.			
Gujrat Phalia	•••	•••	15,920 51,288	18,184 91,614_	34,104 142,902	16,281 78,581	31,932 119,815	48,213 108,306	
	Total	•••	67,208	109,798	177,006	94,862	151,747	246,609	
•					Arca as	sessed.			
Gujrat Phalia	•••	•••	15,573 50,317	17,851 89,314	33,424 139,631	15,502 75,810	31,494 119,265.	46,996 195,075	
•	. Total	•	65,890	107,165	178,055	91,312	150,759	242,071	

The results show a 40 per cent increase on the previous year's figures, but still considerably less than was anticipated in the Project, viz., 3,45,000 acres. This was due to an unavoidable delay of a year in opening the Canal, the epidemic of influenza that impeded cultivation and the development of new irrigation, and recruiting activities that made a heavy call on the available labour.

The Colony villages are now almost completely brought into cultivation and irrigating to the full extent proposed.

- 6. The gross income from all sources amounted to Rs. 8,00,505 and the working expenses to Rs. 7,37,645 resulting in a profit of Rs. 62,860 or 0.14 per cent. on the capital invested. Last year there was a slight loss but the cost of and expenditure on this Canal is largely in the interests of the other two Canals (Lower Bari Doah Canal and Upper Chenab Canal).
- 7. The gradual raising of the supply in the Main Line, an operation that necessitätes great care and incessant supervision, on account of the numerous high embankments, was carried on successfully during the year, and all ordinary demands for water supply can now be safely met.

There were no large floods in any of the numerous cross drainage works.

The Mangla Division was amalgamated with the Jhelum Division during the year.

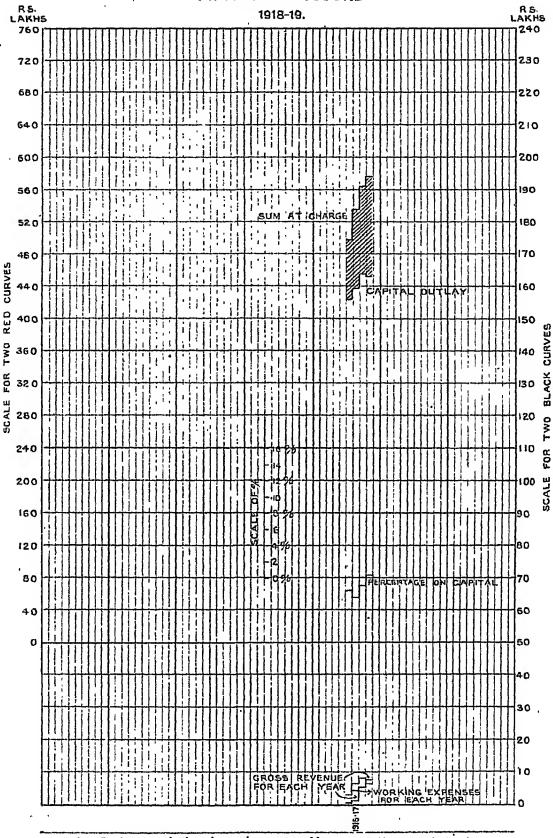
LOWER JHELUM CANAL.

(SUPERINTENDING ENGINEER-MR. W.P. SANGSTER, C.I.E.)

1. The expenditure (direct and indirect) amounted to Rs. 4,53,505, but the recovery of Rs. 1,055 from the cultivators on account of acreage rate reduced it to Rs. 4,52,450. This brought the total outlay to the end of the year to Rs. 1,66,77,579. The expenditure was incurred-chiefly on remodelling the Head Regulator, sluices, and Bay No. 1 of the Weir at Rasul; remodelling Main Line, Rattokala distributary, and certain distributaries of the Northern Branch; constructing quarters for Olerks and Subordinates at Rasul, for two sub-divisional officers at Shahjiwana and Uppi; and telegraph offices and signallers' quarters at Rasul and Baha-ud-Din.

UPPER JHELUM CANAL

FINANCIAL RECORD



N. B.—The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts between the black curves give the net income each year.

Construction commenced in 1905 and the canal was opened in 1915.

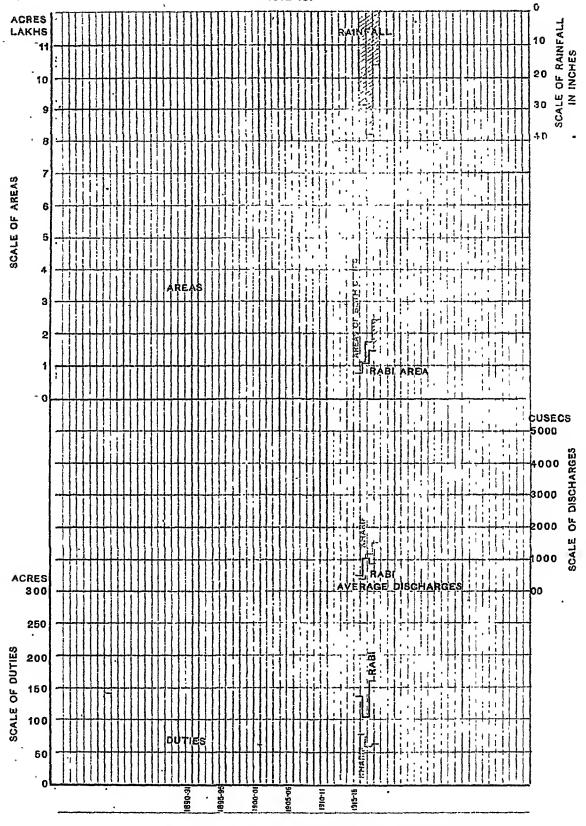
This canal being one of the triple project canals its financial record, considered alone, is largely fictitious. The financial record of the triple canal project as a whole is shown on a separate diagram facing page 26.

Zinco., March, 1910.-No. 6036-5-285

UPPER JHELUM CANAL

WORKING RECORD





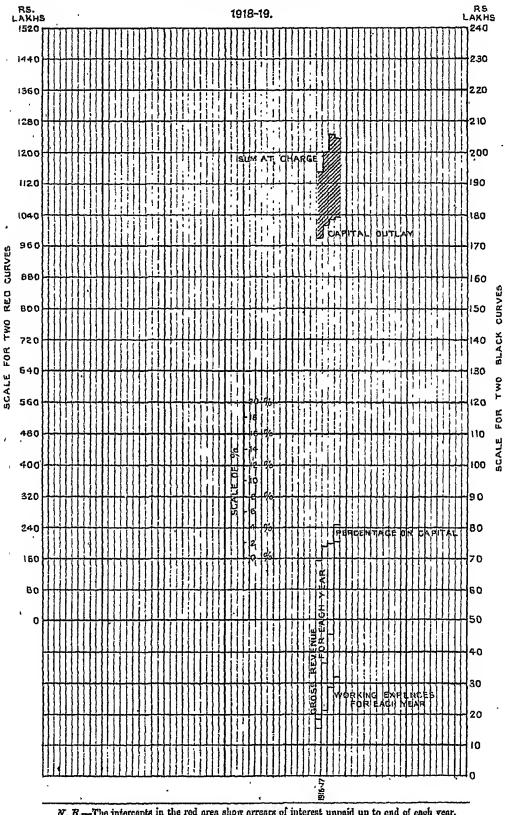
N. B.—The intercepts in the red area show the kharif acreage each year.

The discharges are measured at canal head and are averages for each crop.

The duties are derived from these areas and discharges.

TRIPLE CANAL PROJECT

UPPER JHELUM, UPPER CHENAB AND LOWER BARL DOAB CANALS COMBINED FINANCIAL RECORD



N. B.—The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts between the black curves give the net income each year.

Name of Canal.	Construction commenced in.	Canal was opened in.
Upper Thelum Canal Upper Chenah Canal Lower Barl Dock Canal	1905 1905 1907	1916 1912 1913

- 2. Expenditure amounting to Rs. 53,873 was incurred chiefly on raising the masonry cills and lengthening the upstream impervious floor of Fakirian Regulator; constructing a watchman's hut at R.D. 650, Main Line; pitching the right bank of Rasul watercourse; making bunds and dismantling shutters of the Rasul weir; communication road between Dhaulka and Hissam rest-house; and a motor road to connect Assianwala and Chaukera rest-houses; remodelling head regulator, Malkowala Minor and drainages on Southern Branch; extending avenues on channels in Hujjan Sub-Division; a reinforced concrete bridge over now Beriwala distributary; fixing Kennedy Gauge Outlets on Mithalak distributary; extending the combined vernacular office at Sargodha; and additions and alterations to the canal disponsary at Rasul.
- 3. Expenditure to the extent of Rs 2,64,614 was incurred on the annual maintenance of channels, masonry works, buildings, and on special repairs to undersluices floor; shutters in Rasul Weir Bays Nos. 2 to 7; downstream groynes of Rasul Weir; downstream berms Weir Bays Nos. 4 and 5; downstream talus of Weir Bay No. 1; weir groynes upstream and downstream; downstream floor of Northern Brauch Head Regulator and providing sleepers and wooden keys for Rasul Baha-ud-Din Railway.

Nature of season and state of domaind and supply—
. Kharif, 1918.
Rabi, 1918-19.

4. A very poor monsoon was the chief feature of the season 1918 as the following statement will show:—

			Ymars.				
District.	Cnor.		1015-16.	1916-17.	1917-18.	1918-19.	
Shahpur	10_1.:		Inches. 3.06 0.36	Inches, 14:36 1:78	Inches. 22·16 8·42	Inches, 5.88 2.80	
	Total		4.32	16.14	25. 28	7.68	
Jhang	7)1.:		1·98 0·36	9·77 0·85	17·77 2·22	5·16 2·47	
,	Total .		2.34	10.62	19.99	7.68	

The kharif season opened unfavourably and continued so throughout. A fairly large area was sown, but with only moderate success owing to the scarcity of rain and to the exceptionally hot dry weather. Fortunately there were no hail-storms or other calamities, and the crop yield was up to the average. The winter rainfall did not benefit the wheat crop appreciably.

The total area remitted was 10,6/7 acres (including 2,106 acres remitted under Tenancy rules), 8,948 acres of which were remitted during kharif 1918.

The canal was closed at its head for 14 days during kharif and for 3 days during rabi for special repairs to works.

The demand for water was keen and the supply was generally sufficient throughout the year except in October 1913. The first rotational closure in October 1918 became necessary earlier than was anticipated and, unfortunately, a severe epidemic of influenza broke out soon afterwards, a combination of circumstances which considerably reduced the rabi sowings and in particular wheat sowings.

The areas irrigated and assessed during the year compare as follows with the corresponding figures of the averages of the two preceding triennia and of the year Aren irrigated— Kharif, 1918 Rabi, 1918-19. 1917-18:-

	Crop.		Average of end		AREA IRRIGATED DURING		
			1914-15.	1917-18.	1917-18	1918-19.	
Kharif Rabi	•••		Acres. 242,649 573,812	Acres. 299,575 571,894	Acres. 231,872 533,598	Acres. 251,601 525,895	
	Total		816,460	801,469	. 765,470	777,496	

The increase in area irrigated in *kharif* was due to increased cotton and fodder sowings eaused by higher prices. The decrease during *rabi* was mostly due to the shortage of water in October, and to the prevalence of a very severe influenza epidemic during the months of October and November, of which thousands of people died and others were unable to work for weeks. Thus the sowing of rabi crops suffered. It was partly due also to the untimely rotational closures of the branches. The supply in the river Jhelum began to fall early in September, and it fell so rapidly that the rotational closures had to begin much earlier in October than had been anticipated.
Out of the total area of 777,496 acres irrigated during the year 385,609

acres were in the proprietary villages and 391,887 acres in Colony villages.

The gross receipts (direct and indirect) amounted to Rs. 42,77,101, Financial results besed on collections
Rabi. 1917-18

Rharif, 1918.

This return was about 1 per cent. less than that of the preceding year due to -

(a) an increase of about Rs. 1,60,000 in the capital outlay

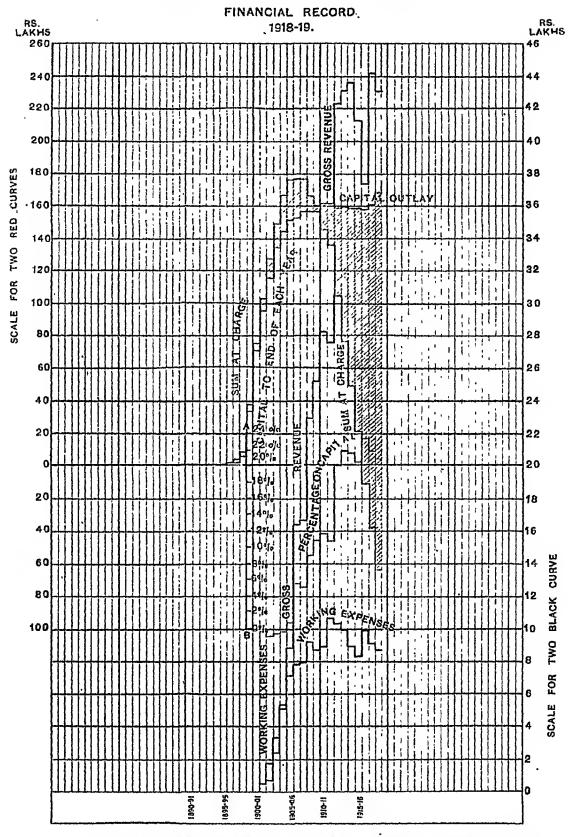
(b) the decrease in the area irrigated during rabi 1917-18 (the revenue on which was collected during the year) which was caused, as explained in last year's report, partly by a large area being sown and matured without receiving canal water and partly by the shortage of labour on account of recruiting activities and the prevalence of exceptionally severe malaria at the time of the rabi sowings, &c.

The figures for the year 1918-19 and the average of the preceding three years are compared below :-

Items.		Average triennium, 1915-18.	1918-19.	
Direct receipts.				,
Occupiers' rates Miscellaneous receipts	•••		27,40,627 63,992	(a) 26,17,634 (b) 65,285
Total direct receipts - Indirect receipts		•••	28,04,619 16,25,226	26,82,919 (c) 15,94,182
Total direct and indire Working expenses	ct		44,29,845 9,05,862	42,77,101 (d) 8,60,215
Nct revenue Percentage on capital Net revenue less interest Percentage on capital		•••	35,23,988 21·78 29,91,174 17·94	\$4,16,886 20 49 558,856 17-13

⁽a) The decrease under the Occupiers' rates as compared with the average of the previous three years was due to cause explained in paragraph 6 above. The rate per core assessed works out to Rs. 3'41 against Rs. 3'45 for the previous triennium.
(b) The increase under miscellaneous receipts was due to larger reclizations from water power and miscellaneous other receipts.
(c) The decrease follows the decreese under (a) above.
(d) The working expenses were about Rs. 45,000 loss than the average of the last three years. This was due to curtailment of expenditure on meintenance of channels.
The rate per acre of area assessed was Rs. 1'12 against Rs. 1'15 in the preceding triennium.

LOWER JHELUM CANAL.



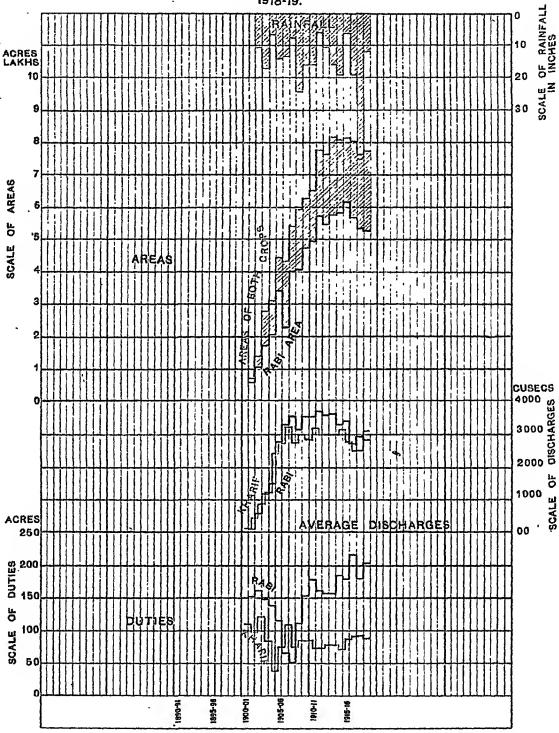
N.S.—The intercepts in the red area show arrears of interest which, added to the capital, give the sum at charge.

The intercepts in the blue area give the accumulated profits.

The scheme was commenced in carnest in 1898-99 and opened in 1901. Until 1905-06 the canal did not pay any interest on its capital cost this being due to free remissions of water rates on new irrigation.

LOWER JHELUM CANAL.

WORKING ,RECORD. 1918-19.



N.B.—The intercepts in red area give the Kharif irrigation each year. The discharges are measured at mile 14 of the main canal and give averages for each crop.

The duties are derived from these areas and discharges.

described in paragraph 4 above. The relative performances of the last five rabi seasons may be compared by the following values of (Delta):—

Rabi. 1914-15		# \$5#	***	,	= 1.96
Rabi, 1915-16		***	•••	•••	= 1.6
Rabi, 1916-17		•••	***	•••	= 1.5
Rabi, 1917-18			•••	•••	= 1.7
Rali. 1918-19	_	•	•••	444	= 1.97

- (b) The following works were completed during the year:-
 - (1) Bay No. 1 of Rasul Weir: Crest wall raised to 711.5 and shutters removed.
 - (2) Bays Nos. 3 to 9 of Undershuices: new gates installed.
 - (3) Telegraph offices and Signaller's quarters at Rasul and Baha-ud-Din.
 - (4) A block (4 units) of Senior Clerks' quarters at Rasal.

The following works are in progress: -

- (1) Remodelling Main Line, Lowor Jhelum Canal.
- (2) Remodelling Rattokala distributary.
- (3) Lower Subordinates' quarters at Rasul.
- (4) Remodelling Lalian and Bucha distributaries with their minors.

The remodelling works on several other distributaries, estimates for which have been sanctioned, could not be pushed on owing to shortage of labour and stringoncy of rates. Efforts are now being made to import labour from other centres.

(c) A satisfactory feature of the wheat crop was the improved outturn a benefit which is probably attributable to the rotational closures, as fewer waterings tend to produce better grain, although the straw may be somewhat less. Many zemindars are beginning to recognise this fact.

The American variety of cotton has almost entirely supplanted the "desi" variety, and, generally, with regard to the selection of seeds, zemindars are beginning to show more discrimination.

UPPER SUTLEJ INUNDATION CANALS.

(SUPERINTENDING ENGINEER,-MR. F. T. BATES.)

- 1. No expenditure was incurred during the year, but the canal received a credit of Rs. 5,027 under the suspense account (stock transactions) and this reduced the total outlay to end of the year to Rs. 18,12,296 (direct and indirect).
- 2. Expenditure amounted to Rs. 10,646 against Rs. 12,186 in the previous year and was chiefly incurred on constructing bridges at R. Ds. 16,000 and 17,719 Upper Schag Canal, at R. D. 17,000 of Turbat Minor and at R. D. 50 Sahiba Minor; a well at Ladhewal rest-house; and a wooden bridge at R. D. 15,000 Gulshah Minor, and also on remodelling outlets Wanawala distributary.
- 3. Expenditure amounted to Rs. 1,63,633 which, in addition to ordinary maintenance and silt clearance of channels, was incurred on the following works: Diversion out in Manak Dehka; constructing a 2-5' fall at the tail of Manak Dehka diversion cut, Khanwah Canal; digging a channel above Dalla bridge, Lower Sobag Canal; river discharge observations at Beas and Sutloj; raising and repairing banks, Khanwah Canal.

4. The following table compares the irrigation of the year with that Area irrigated—

Area irrigated—

(Rharif, 1916.

Rabi, 1918-10.

Previous triennia:—

		Avi	TRAGE OF S	rears endi	۰0	AREA IRRIGATED DURING				
Cror.		1914	-15	1017-18.		1917	-18.	1918-19,		
•	-	Gross.	Net.	Gross.'	Not.	Gross.	Net.	Gross.	Net.	
Kharif Rabi		Acres. 175,178 177,899	Acres 159,715 177,888	Acres. 159,882 182,869	Acres. 151,013 182,369	Acres. 189.900 247.957	Acres. 163,071 247,957	Acres. 151,155 107,814	Acres. 136,253 107,844	
Total		353,066	386,608	341,251	383,882	. 437,857	471,029	258,400	213,597	

The net area assessed during 1918-19 was less by 93,006 and 89,785 acres as compared with the averages of the two triennia ending 1914-15 and 1917-18, respectively, and by 187,431 acres as compared with 1917-18. This is quite satisfactory taking into consideration the fact that the monsoon of 1918 had commenced only in the middle of August and ceased early in September and that the river fell very low much earlier than usual in consequence of which the kharif and rabi crops, which required water during September, suffered severely.

- Financial results based on collections—
 Rabi, 1917-18.

 Working expenses to Rs. 3,76,397, giving a net revenue of Rs. 4,64,512 or a return of 25'63 per cent. on the capital invested. In the previous year the figures of net revenue and the percentage were Rs. 3,67,920 and 20'24. This favourable result was due to the very good rabi crop of 1917-18, the revenue for which was collected during the year.
 - 6. (a) The following table shows the dates of opening and closing of the canals together with the corresponding dates of the previous year:—

NAME OF CANAL.		DATE OF	orexin o.	DATE OF	orosiva.	No. of da	Rewarks.	
		1918.	1917,	1918.	.917.	1918.	1017.	DEMARKS.
Kators		Afternoon,	Foroncon, 9-5-17.	Afternoon 80-9-18.	Afternoon, 19-11-17.	144	195	
15hanwalı		Afternoon, 19-5-18.	Forenoon, 14-5-17.	Afternoon, 13-9-18	Afternoon, 31-10-17.	105	141	
Upper Sohag		Afternoon, 6-5-18.	Forenoon, 14-5-17.	Afterocon, 1-12-18.	Afternoon, 10-12-17.	205	211	
Lower Sohag	-	Afternoon, 1-5-19.	Forennon, 14-5-17.	Afternoon, 2-10-18,	Afternoon, 28-11-17.	155	168	

(b) The river supply during the months of May, June and July was low and the canals were drawing a fair supply except the Julloke head of Khanwah Canal which, owing to the river starting erosion just above the head, got silted up early in June and it was only after a great deal of trouble and labour that it was partly set right in August. The Reserve Head Khizra of this canal also did not work as the river creek on which—it was situated got silted up and was, therefore, poorly fed by the river. The New Kassoki Head of the Katora Canal got silted up towards the end of June due to river erosion, but the old Kassoki Head or its Reserve Head worked satisfactorily. There was no trouble with the Nijabat Head and the services of the Mokal, its Reserve Head, were not required. The river, however, attacked the new reach of this head and washed away a length of 1,500 feet.

There was no trouble with the Khiwa Head of the Lower Schag Canal and the Reserve Head, called the Upper Dona Head, was not opened. The river supply fell early in October and the Upper Dona Head was situated too far downstream to be in a position to help the canal at that time. The failure

of the monsoon was the real cause of a low river in October. There were no floods in the river during September. In fact the supply in the river had gone down to 10 feet in the 2nd week of that month.

This was a very unfavourable year for the inundation canals and the area under the rabi crops was comparatively small.

SIDHNAI OANALS (INCLUDING THE KORANGA, FAZAL SHAH AND ABDUL HAKIM, SUBSIDIARY CANALS.)

(Superintending Engineer-Mr. J. W. Gillmon).

Capital account— Kharif. 1918. Radi, 1918-19.

No expenditure was incurred during the year, but the suspense account was credited with Rr. 1,533 on account of stock transactions and this reduced the total expenditure (direct and indirect) to end of year " to Rs. 13,30,67 ...

Settlers Account -The balance of Rs. 248-6-6 to end of the year 1917-18 on account of repairs to bridges on Sidhnai Canal was credited to Tacavi during the year and the account squared.

- Extension and Improvements,
- Expenditure was Rs. 8,833 against Rs. 7,696 in the preceding year and was incurred on remodelling distributavies and on constructing quarters for the use of subordinates at Jodhpur.
- Maintenanco and Repairs.

The expenditure amounted to Rs. 40,485 against Rs. 54,010 in the previous year. In addition to the usual maintenance of works the following were carried

Providing Needles for Sidhnai Dam; special repairs to Sidhnai Dam, its downstream talus and the damaged buildings at Rashida; and strengthening banks Sidhnai Canal.

4. The total rainfall at Kabirwala was 5.81 inches (4.47 inches Nature of season and state of demand during Kharif and 1.34 inches during Rabi) and supply— Kharif, 1918. Rabi, 1918-19. against an avorage of 649 inches, and rain did no damage to standing crops.

The supply remained low throughout almost the whole year and the Sidhnai Canal was dry from 21th October 1918 to 4th February 1919.

The outstanding feature of the working of this canal during the year was that the winter supply was very deficient and in consequence wheat could not be sown extensively.

Irrigation-Eharif, 1916. Rabi, 1918-19.

5. The following table compares the irrigation effected on the whole system with the figures of the year 1917-18 and the averages of the two provious trionnia :--

,	. Crop.		Average of	1	Area innigated.			
•			1914-15.	1917-18.	1917-18.	1918-19,		
trafamente managemente m	*	·	Acres-	Acres,	Acres.	Acres.		
Kharif Rabi	 	•••	127,087 151,507	121,980 174,930	131,207 187,235	121,212 108,155		
44	Total .	•••	278,544	295,716	315,442	220,307		

The failed area in kharif amounted to 25,640 acres or 21.15 per cent. of the area irrigated against 19.97 per cent. in the previous year. During rabi 9,954 acres or 9.21 per cent. of the area irrigated were remitted against 8.29 per cent. in .1917-18.

The high percentage of kharaba was due to low supply in the river Ravi at head of the Sidhnai Canal.

Financial results based on collections—Rs. 7,01,625 in preceding year. Working expenses amounted to Rs. 95,788 against Rs. 1,58,769 kharif. 1918.

Rs. 7,16,135 or 53.83 per cent. on the capital outlay against Rs. 5,42,856, or 40.75 per cent. in the preceding year.

The uncollected balance of the assessment of occupiers' rates amounted to Rs. 1,582.

7. The influenza epidomic was raging furiously all over the country during the months of September and October 1918 and this hampered the sowing of rabi crops considerably. Food stuffs were dear and fodder very scarce.

Owing to the close vicinity of the Lower Beri Doab Canal, there is general complaint of tenants going away to that canal. Rains in the hills and plains brought some water in February 1919 which proved helpful to the crops. Great damage was done by hail storm in April towards Rashida, Khanewal and Rawan.

No new works of any magnitude were undertaken owing to the war.

IMDUS INUNDATION CANALS.

(SUPERINTENDING ENGINEER-J. W. GILLMON).

- 1. The expenditure (direct and indirect) amounted to Rs, 992 as compared with a credit balance of Rs. 1,598 in the preceding year. It was mainly incurred under the head "Suspense."
 - 2. Rs. 20,713 were spent against Rs. (8,966 in the preceding year. The following were the more important works in progress:—

Improving Baja flood embankment and the Manka Canal from Gadai to Loharwal; constructing a wooden bridge at R. D. 120,500 of Shoria diversion; Leghari ring bund between bund No. 3 and Dhundi Kutab Canal; Groynes for the Dhundi Kutab Canal and Sahiban Canal and a diversion for the Kadra Canal; and building outhouses and stables for Fazilpur rest-house.

- 3. The expenditure amounted to Rs. 1,23,612 as compared with Rs. 1,90,140 in the preoeding year. Ordinary maintenance and repairs, silt clearances of canals, strengthening of certain flood embankments and other miscellaneous works were carried out.
- A. The rainfall during kharif was 1.90 inches and during rabi

 Nature of season and slate of demand and supply—

 Rharif, 1918.
 Rabi, 1918-19.

 Indus rose sufficiently high for timely opening of the canals and this state continued up to June. But the supply soon after fell and remained low and consequently canal supplies were precarious. The river never rose above 33 feet. The demand was keen. Kadra was the only canal which worked well but little cultivation is jone on this system. The Massuwah, Fazilwah, Manka, Kasturi and Dhingana Canals ceased to flow early. The Nur Dhundi and Sahiban canals ran throughout the winter with a small but extremely valuable supply of water.

The closing of creeks during September at heads of Nur Dhundi and Dhundi Kutab Canals at a cost of about Rs. 300 saved the crops on these canals.

The following statement shows the period during which canals were in flow:-

			DATE	S OF	3763
Name of	Canal.		Opening.	Closing.	No. of days canal was in flow.
Maesuwah	•••	•••	10th May 1018	9th September 1918.	110
Fazilwah	•••		6th May 1018	21st September 1918.	74
Manka	•••	••	5th May 1918	12th September	120
Shorin	•••	•••	4th May 1918	1918. 30th September	149
Kastari	•••	•••	6th May 1918	1918. 8th September	93
Dhingana	•••	•••	5th May 1918		123
Chibri		•••	11th May 1918		186
Sahiban	•••	•••	15th May 1918	1918. 30th September 1918. 31st March 1919	195
Gamun	***	•••	15th May 1918		120
Nur Dhundi	•••	•••	15th May 1918	1918. 31st March 1919.	314
Dhundi Kutab	• • •	•••	15th May 1918	5th October 1918	142
Kadra	•••	•••	15th May 1918	22nd October 1918	159

Aren irrigated-Kkarif, 1918, Rabi, 1918-19. 5. The following table compares the areas irrigated during the year with the figures of 1917-18 and the averages of the two previous treinnia:—

	Crop.	-		Average o	of S years ding	1917-18.	1918-19.
	•		İ	1914-15.	1917-18.		
***************************************		· · · · · · · · · · · · · · · · · · ·		Acres.	Acres.	Aeres.	Acres.
Kharif Rabi	••• - !!!.	•••	•••	, 173,025 66,570	152,702 82,802	140,042 64,171	121,144 (A) 59,953 (B)
		otal	•••	230,505	235,004	201,213	181,007

The figures exhibited at (A) and (B) include the areas remitted which amounted to 40,852 acres in Khari f and 9,940 acres in Robi.

The gross areas irrigated during *kharif* and *rabi* were 121,144 acres and 59,953 acres respectively against 140,042 acres and 64,171 acres during 1917-18. The decrease in irrigation during 1917-18 was due to damage done by the hill torrents in consequence of the heavy rainfall in the Suleman Hills which caused floods of unprecedented violence, and this year it is due to short supply and bad soil.

6. The total income from all sources was Rs. 4,29,790 against Rs 4,41,690 in 1917-18 and the total expenditure under all heads amounted to Rs. 2,70,886 against Rs. 3,99,182. The not profit was, therefore, Rs. 1,55,904 (a percentage of 5.32 per cent. on the capital outlay)

against Rs. 42,508 or 1.42 per cent. in the preceding year and an average of Rs. 72,587 in the previous triennium

The uncollected balance of assessment of occupier's rate was Rs. 29,846

The year was one of unusual dryness owing to inadequacy of rainfall and low supply in the river and consequently the canals generally worked badly. The Fazilwah canal was eroded by river erosion during July 1918 from R. D. 2,000 - 4,800, and also there was erosion opposite subsidiary head of Dhundi Kutab Canal. General remarks. The hill torrent water was also very restricted in quantity.

Influenza and malaria in very severe form, prevailed throughout, which caused much dislocation and a very large number of deaths oeeurred.

The damage to crops was also done by crickets (called Tiddi) during July which destroyed almost the entire sowings of jowar and

The following works of importance are either under contemplation or in hand:-

Remodelling of Kasturi Canal.

(b) Providing masonry outlets on certain eanals.

(c) Remodelling of Dhingana.
(d) Remodelling of Sohan Branch.
(e) Remodelling of Sahiban Branch and Banuhan Branch.

On the above canals, water does not reach the tail even at times of high supply and a great deal of inconvenience is caused. Once these channels have their supplies equitably distributed, there should be an increase in revenue at a comparatively small cost.

Minor Irrigation Works. SHAHPUR IMPERIAL INUNDATION CANALS. (Superintending Engineer-Mr. W. P. Sangster.)

Capital Account— Kharif, 1918. Rabi, 1918-19.

- 1. Expenditure amounting to Rs. 9,107 was incurred on construction of certain buildings.
 - 2. Rs. 16 were spent on minor works only.

Extensions and improvements.

- Expenditure to the extent of Rs. 25,889 was incurred on silt clearance and on the usual maintenance and Maintenance and Repairs. repairs.
- 4. The rainfall was 9.09 inches against 26.48 inches in the previous year. During the kharif season the rainfall was 6.49 Nature of season and state of demand inches and during the rabi 2.60 inches. Of the kharif rainfall 2.16 inches fell in April, 0.38 inches in June, 1.56 inches and supply— Kharif, 1918. Radi, 1918-19.

in August, and 0.81 inches in September. There was no rain during May 1918 During rabi the month of November was rainless and the rainfall in October and December to March aggregated to 2.60 inches only.

Area irrigated— Kharif, 1918. Rubi, 1918-19.

5. The irrigation of the year compares as follows with the averages of the two previous triennia and with the figures of 1917-18:-

	Crop.		AVERAGE FOR ENDI		ACTUAL FOR		
		-	1914-15.	1917-18.	1917 - 18.	- 1918-19.	
Kharif Rabi			Acres. 18,786 24,695	Acres. 15,589 23,133	Acres. 17,648 24,985	Acres. 5,825 10,902	
	Total	••	43,481	38,722 '	42,633	16,727	

The decrease is due to short supply in the river. The area successfully matured and assessed was 11,972 acres as against 39,518 acres in the provious year, and 35,849 acres the average of the previous triennium, the decrease being due to unfavourable rainfall and to the inadequate river supply.

Revenue was remitted on 4,755 acres, of which 1,140 acres were due to short supply, 2,810 acres to bad germination, and 805 acres to miscellaneous causes.

6. The gross revenue realised amounted to Rs. \$2,097 and the working expenses to Rs. 64,010 leaving a net revenue of Rs. 18,087 which is equivalent to a return of Rs. 1917-18.

Rharif, 1918.

Rs. 804 per cent. on the capital outlay to date.

Details compare as follows with the averages for the preceding trionnium:—

]	Details.			Average for the previous 3 years ending 1917-18.	Actual for 1918-19.
Receipts direct	111			81,209	61,479
" indirect		•••	 .	30, 059	20,618
	g	l'otal		1,14,268	82,097
Working expenses	***	•••	•••	58,020	64,010
•	Net rev	Cnue	•••	60,748	18,087
Percentage of net revenue	on capital	•••		28.14	8.04

The decrease under revenue is due to less irrigation and larger remissions during kharif 1918 owing to the unfavourable season and to a larger expenditure under working expenses.

7. The Imperial Inundation Canals began and ceased to flow on the following dates:—

Name of Canal.	 Began to flow	Ceased to flow	Period of flowing days.	
Eastern Station Canal Western Station Canal	 8th May 1918 8th May 1918 9th May 1918	25th August 1918 28th August 1918	67 59	
Sahiwal Canal	 9th May 1918	29th August 1918	88	

Owing to low supply in the river the water failed to enter the canals in September. They were opened in May and closed as early as August.

GHAGGAR CANALS.

(SUPERINTENDING ENGINEER-Mr. G. C. LAURIE.)

- 1. Expenditure amounting to Rs. 3,872 was incurred in constructing a subordinate's rest-house at Jagmalera. This brought the outlay to date to Rs. 6,65,483 (Imperial Rs. 3,79,297, Contribution Rs. 2,86,186).
 - 2. Expenditure amounted to Rs. 2,624 (Imperial Rs. 2,099, Contribution Rs. 525) and was incurred on petty works of improvement.
 - 3. Expenditure amounting to Rs. 8,136 (Imperial Rs. 6,412, Contribution Rs. 1,724) incurred during the year was normal.
 - 4. (a) Kharif.—There were light showers of rain during June. July, Nature of senson and state of domand— August and September hardly sufficient to-benefit the crops. The heaviest fall of 1.30 inches recorded at Otu, occurred on 26th August when it was too late for the kharif crop. Rainfall was considerably in defect throughout the area, and this, combined with serious insufficiency of supply in the reservoir, caused the kharif crop to be a complete failure.

Water first reached Otu weir on 12th June but the supply remained very low, and it was only possible to open the Northern Ghaggar Canal, with less than one quarter of its full supply, for ten days for rice sowing. The canals were dry throughout July. During the first half of August the Northern Canal ran with an insignificant supply, and it was not until the 25th August that the canals could be opened with a satisfactory supply, while they were practically dry again by the end of September, though the Northern Canal continued to flow with an unimportant supply during the first half of October Water passed over the weir from 27th August till 5th September. The Northern Canal was in flow for 52 days and the Southern Canal for 36 days.

(b) Rabi.—There was practically no rainfall except a very few light showers during January which were quite insufficient for maturing the crop. The area sown was small owing to the poor monsoon and even that small area gave poor results.

(c) Rainfall.—The average rainfall of all stations was British 3.70 inches and Bikaner 2.93 inches as compared with 35.60 inches and 29.88 inches respectively, during 1917-18. The rainfall was distinctly below the average, though that of the previous year had been abnormally great.

5. The following table shows the area irrigated in British and Bikaner territories during the last 5 years ending 1918
Rabl, 1918-19.

19. The area in British territory includes area assessed by the Civil Dopartment.

		1914-15	•	1	1915-16.			1916-17			1917-18		1	1912-19.		
Crop.	Britisb.	Bikaner.	Total.	British	likaner.	Total.	Briti sh.	Bikaner.	Total.	British.	Efkaner.	Total.	British.	Bikaner.	Total.	
-	Acres.	Acres.	Acres.	Acres.	A cres.	Acres	Acres,	Acres.	Acres	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
Kharif	9,880	1,663	10,993	4,218	12	4,230	10,237	3,264	13,491	9,603	1,677	11,280	1,964	106	2,070	
Rabi	15,060	6,403	21,463	11,788	3,166	20,944	18,090	8,786	26,876	12,220	6,994	19,214	9,508	1,342	10,750	
Total	24,39'	8,066	32,466	22,006	3,168	25,174	28,827	12,040	40,367	21,623	6,871	80,494	11,472	1,345	12,820	
Total number of days canal was in flow.	Nor Ca Sou C	thern anal. athern	102		50			92			12:			5: 8(

The figures in the above table do not include the area under palever.

The land under fluctuating assessment is not subject to water rates but the canals receive a credit for any fluctuating revenue in excess of an average of Rs.37,000 per annum during a ten years' period.

The amount of occupiers' rates assessed was Rs. 151 in kharif and Rs. 4,217 in rabi and the rate per acre assessed works out to 6.29 and 2.50, res-

pectively.

6. The operations of the year resulted in a loss of Rs. 8,514 which is equivalent to 2.24 per cent. on the capital outlay compared with a loss of Rs. 12,165 equivalent to 3.22 per cent. in the previous year.

The question of the financial position of these canals was referred to the Financial Commissioners, Punjab, in May 1918 who left it for consideration till after the completion of the settlement operations in the Sirsa Tahsil of the Hissar District which were commenced only on 1st October 1919.

7. (a) Agricultural and other conditions of the year.—The Canals were in flow for a very short period as above stated.

The area remitted in British Territory was 28 acres in kharif and 330 acres in rabi.

The approximate value of crops matured on the Ghaggar Cauals in British Territory amounted to Rs. 3,56,104 against Rs. 7,78,659 in the previous year. It will thus be seen that these canals are of great public benefit to a very dry tract

The principal crops grown are wheat and rice.

(b) Nature and scope of new works contemplated and progress made on the preparation of new projects.—The proposal for raising the reservoir level by 3 feet has been deferred pending a decision regarding Bhakra Dam Project on the Sutlej River.

There is at present no other project for extending the canals or increasing the supply of water.

8. The following statement of irrigation has been supplied by the Working of the Chaggar Caush in the Bikaner State:—

Bikaner State.

/			1917-18.			1918-19.	
Cauals.		Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
Northern Canal Southern Canal	•	Acres. 1,218 459	Acres. 5,857 1,637	Acres. 6,575 2,096	Acres 66 40	Aeres. 810 423	Acres. 885 483
Total		1,677	6,094	8,671	106	1,242	1,348
Flow Lift	•••	1,677	6,994	8,671	108	1,212	1,348
Total as above		1,677	6,994	8,671	106	1,242	1,348

The following table shows the working of the canals in the Bikaner State:—

	Parti	oular.			1917-18.	1918-19.
	Rocc	ipl8			Rs.	Rs.
Water rate		444	•		17,457	2,003
Miscellaneous	•••	.***	•••		415	291
·.	222 1 1		Total		17,872	2,294
T1 1 1 1 1 1	Working	expenses.		-		
Establishment	•••	•••	•••	1	3,127	2,944
Other expenses	•••	***	• • •		4,635	5,575
•			Total		7,762	8,519
		Profit or lo	ss (not)	[-	10,110	-0,225

It will be seen that the Bikaner State suffered a loss of Rs. 2 18 per cent. on the working of the Canals for the year on the Contribution capital account of Rs. 2,86,186.

LOWER SUTLEJ INUNDATION CANALS.

(SUPERINTENDING ENGINEER-MR. J W. GILLMON.)

- 1. These canals are classified under 43—Minor Works and Navigation for which no capital account is kept.

 Kharif*, 1918.
 Rabi*, 1918-19.
 - 2. The expenditure amounted to Rs. 1,05,050 against Rs. 43,496 in the preceding year. The more important works undertaken were:—

Two diversions—one escape of the head regulator for the Mailsi Canal; one diversion of the Mohammadwah Canal; making flood embankment between the Mailsi Canal and the Ghulamwah Canal; new head regulator for the Thadda Minor and Junction Channel to feed Sheikhwah Sharqia Distributary of the Bahawalwah Lodhran Canal; and remodolling Diwanwah Branch.

- 3. The expenditure amounted to Rs. 86,510 against Rs. 92,240 in the preceding year and was incurred on ordinary maintenance of channels and silt clearances etc.
- 4. The total rainfall during kharif was 2·10 inches in tehsil Lodhran and 2·29 inches in tahsil Mailsi against an average of 4·16 inches and 5·18 inches, respectively. During rabilit was 2·43 inches in tehsil Lodhran and 0·97 inches in tehsil Lodhran and 0·97 inches in tehsil Mailsi against the average of 1·25 inches and 1·10 inches respectively. The supply in the rivor was very low and the demand throughout the year was keen

The following statement gives the dates of opening and olosing of the Canals during the year:—

		Dati	No. of days	
Name of Canals.		Opening.	Closing.	canal was in flow.
Hajiwah Mailsi Mohammadwah Bahawalwah-Lodhran	•	5th June 1918 9th June 1918 26th May 1918 28th May 1918	12th Septr. 1918 3rd Decr. 1918 6th Novr. 1918 8th Octr. 1918	98 178 161 132

Towards the end of the season the heads of the Hajiwah and Bahawal-wah-Lodhran Canal silted up entirely, thus closing off their supply for the rabi irrigation. The Bahawalwah-Lodhran Canal continued to be supplied from Mohammadwah through the Haveli Connecting Channel but the supply in the Mohammadwah also being short, the irrigation on both was affected. The Mailsi Canal was closed before the supply failed owing to the necessity for drawing off the water at the site of the new escape.

5. The following table compares the areas irrigated and matured in 1918-19 with the figures of 1917-18 and the Area irrigated—

Rharif. 1918.

Rabi, 1918-19.

The following table compares the areas irrigated and matured in 1918-19 with the figures of 1917-18 and the averages of the two preceding triennia:—

,	Crop.	•	Average for three years ending		Are . irrigated during.	
	C20 _F	:	1914-15.	1917-18.	1917-18. 1918-1	
Kharif Rabi			141,878 159,975	144,410 193,137	161,821 203,863	96,984 92,932
•	Total	,,,	. 801,353	337,547	365,184	189,916

The failed area amounted to 44,636 acres (37,276 during kharif and 7,260 during rabi) against 63,155 acres (46,454 during kharif and 16,701 during rabi) in the preceding year. Absence of any rain of appreciable intensity and shortage of water in the canals as a result of low river, accounted for deficient irrigation. Rabi sowings were also delayed on account of influenza. Some area on the Hajiwah Canal was also damaged by locusts during September.

6. The total income from all sources was Rs. 5,36,639 against

Rs. 6,68,484 in 1917-18, and the total expenditure Rs. 3,44,927 against Rs. 2,52,089 in the preceding year. The net revenue amounted to Rs. 1,91,712 against Rs. 4,15,395 in 1917-18.

The uncollected balance of assessment of occupier's rate amounted to Rs. 1,243.

7. The year was an unfortunate one as regards irrigation on account of very serious and rapid river erosion which occurred in August and September 1917 opposite the Mailsi Canal, a short distance above the head and escape regulator at Islam. As a temporary expedient, a small diversion of the canal was excavated during 1917-18 which could carry about 3,000 cusees safely, but as any breach in this diversion during the rain would have entailed the entire cutting off the supply, it became necessary this year to use a subsidiary head which gave less supply. Fortunately no heavy floods came and the new bunds at Islam were not breached.

Progress on works, more specially in the Mailsi Sub-Division was hampered by scarcity of labour caused partially by a malarial epidemic and partly due to a recruiting campaign, and criminal tribe labour was, therefore, introduced for argent and important works in progress at Islam (Mailsi Canal).

No important works are contemplated at present.

CHENAB INUNDATION CANALS.

(SUPERINTENDING ENGINEER-MR. J. W. GILLMON.)

Capital Account— Kharif. 1918. Rabi, 1918-19.

- 1. There is no capital account for these canals. They are classified under 43—Minor Works and Navigation.
- 2. The expenditure was Rs. 6,884 against Rs. 16,172 in 1917-18, incurred mainly on piping the Shahpur Branch of the Sikandrahad Canal and the fail Panjani and Lang Minor of the Gajjuhatta Canal; building masonry outlets on the Sikandrahad Canal from Muzasfarahad to Ambala Regulator and making a new bund in the Bijli creek of the same canal.
 - 3. The expenditure was Rs. \$3,86: against Rs. 79.552 in the preceding year. It was incurred on silt clearances of the canals, repairing and strengthening bunds and banks, etc., etc.
- 4. The rainfall during kharif was 2.61 inches in tehsil Multan and 2.36 inches in tehsil Shujabad against the averages of 5.13 inches and 4.57 inches, respectively. During rati, it was 1.11 inches in Multan and 2.05 inches in Shujabad against an average of 1.47 and 1.14 inches, respectively.

The river Chenab rose sufficiently high early in May and the Sikandrabad Canal, which requires water earliest as it has more indigo than any other and irrigates a large acreage of garden lands, was opened on 6th May 1918. This rise of the river continued for a short period only and it then dropped much below its normal level. The supply was throughout poor and

the canals had to run by rotation. The following statement gives the dates of opening and closing of eanals: -

a	,		DA.	No. of days canal	
Can	als.		Opening.	Clesing.	was in flow.
Mattithal	•••		31st May 1918	7th September 1918.	89
Daurana Langana	•••		8th May 1918	22nd September 918.	, 136 ·
Wali Mohammad	••	••	8th May 1918	22nd September 1918.	136
Sikandrabad	•••	•••	6th May 1918	21st September 1918.	138
Gajjuhatta	•••	•••	6th May 1918	21st September	138
Bilochanwah	•••	•••	12th May 1918	12th September 1918.	107

The season was characterised by the absence of any rain of appreciable intensity and the canals eeased running in September as a result of low river, and their early closure accounts for deficient irrigation.

A ren irrigated— Kharif, 1918. Rabi, 1918-19. 5. The following table compares the areas irrigated during 1918-19 with the figures of 1917-18, and the averages of two previous triennia:—

		Average o	of 3 yeers.	Area mrig	ATED DURING
	Стор,	1914-15.	1917-18.	1917-18.	1918-19.
Kharif Rabi		 100,548 99,581	91,703 109,831	97,444 131,598	76,487 50,142
	Total	 200,129	201,534	229,042	126,629

The area which failed to mature was 23,908 acres, or 31.95 per cent. of the area irrigated during kharif and 4,398 or 8.77 per cent during rabi.

Short supply due to abnormally low river and bad soil were the chief, if not the only, causes which accounted for these high percentages of remissions. Under the former head were remitted 22,656 acres or 2956 per cent. of the total area irrigated during *kharif* and 1,298 acres or 259 per cent. during *rabi* whereas under the latter 1,195 acres or 156 per cent. and 2447 acres or 488 per cent. were granted remissions during *kharif* and *rabi* respectively.

6. The total income from all sources during the year was Rs. 4.77,638

Financial results based on collections—
Robi, 1917-18.

Rharif, 1918.

against Rs. 1,49,753 in the preceding year. The net income was, therefore, 3,02,111 against Rs 3,92,373 in the preceding year.

The uncollected balance of the assessment of occupier's rate was Rs. 2,197.

General remarks.

7. Both the area irrigated and the area assessed were poor this year and the results were not satisfactory.

The influenza epidemic was raging furiously all over the country during the months of September and October and this hampered the sowings of the rabi crop considerably. Food stuffs were dear and fodder very scarce.

MUZAFFARGARH INUNDATION CANALS. (SUFERINTENDING ENGINEER—J. W. GILLMON.)

Capital Account— Kharif, 1918. Robi, 1918-19.

- 1. No Capital Account is kept for these canals. They are classified under 43—Minor Works and Navigation and Agricultural.
- 2. The expenditure amounted to Rs. 21,764 against Rs. 38,759 in the preceding year and was incurred mainly on constructing an Inlet Regulator; making up retired bank, cut and diversion; excavating a new Minor; and also on piping and remodelling distributaries.

In addition to the above Rs. 1,752 against Rs. 3,427 during the preceding year were spent from the "Agricultural Fund" on the construction of a pacca well in the compound of Khangarh rest-house.

3. The expenditure amounted to Rs. 1,65,326 against Rs. 1,68,461 dur
Maintenance and Repairs. ing 1917-18 and was incurred on ordinary silt

clearances of the canals, and such works as repairing breaches and regulators; and strengthening and raising banks and bunds, etc., etc.

In addition to the above Rs 25,135 against Rs. 25,616 in 1917-18, were spent from the "Agricultural fund" on maintenance of rest-houses and embankments.

4. The season was exceptionally dry, with an abnormally low record of Rature of season and state of demand and supply—

Rharif, 1018. Early in May the rivers Indus and Chenab rose sufficiently high and remained so for a short period, up to about the end of June, after which the rivers dropped much below their normal levels and river supplies were lower than in the preceding year during the whole of the monsoon period. Consequently the supply in the canals was deficient and much below the average. Moreover, severe crossion set in close to the offtakes of the Taliri and the Karam Canals of the Chenab Series which resulted in the head of the former being choked up entirely towards the end of June and that of the latter being silted up heavily. In the Indus Series, the Magasson Canal was comparatively poorly supplied. The main stream of the river turned towards the west leaving shoals at the offtake of its feeding creek and almost choking it up.

The following statement gives the periods during which canals were in flow:—

'. Nam	e of Canal.	,		Number of days canal		
,		£.~	Opening.	-	Closing.	was in flow.
Ind	lus Šories.					
Kot Sultan	•••		1st May 1918	•••	9th October 1918	160
Magasson	••• ,	•••	5th May 1918		9th December 1918	203
Maggi	•••		5th May 1918	•	3rd December 1918	191
Ghuttu	•••	·	6th May 1918	•••	Flowing	306
Puran	•••	~- ~-	11th May 1918.	•••	ditto.	294
Snleman	••••	•••	5tli May 1918	•••	1st November 1918 .:.	179
Chen	ab Scries.					-
Karam	.** ***	₃ 5 • • • •	2nd June 1918	•••	5th September 1918	58
Ganesh	100	•••	17th May 1918 .	•••	18th September 1918	118
Taliri	•••	•••	15th May 1918	•••	14th September 1918	105

Area irrigated— Kharif, 1918. Rabi, 1918-19. 5. The following statement compares the areas irrigated during 1918-19 with the averages of the previous two triennia and the figures of 1917-18:—

	Crop.	į	Average o		AREA IRRIGATED DUBING	
		•	1914-15.	1917-18:	1917-18. 1918-19	
Kharif Rabi	•••		157,878 222,048	156,072 230,904	160,548 121,78 224,527 - 186,824	
	Total		379,916	886,976	385,075	-308,563

The decrease in the area irrigated was due to the absence of any rain of appreciable intensity and to low supply in the rivers, particularly the Chenab which could not give sufficient supply to the canals taking off from it and also to unprecedented short supply in the Taliri and the Karam Canals.

6. The total revenue collected amounted to Rs. 6,39,841 against Rs. 6,99,691 in 1917-18 and the working expenses to Rs. 3,41,092 against Rs 3,35,243. The net revenue amounted to Rs 2,98,749 against 8,64,448 in the preceding year.

The uncollected balance of assessment of occupier's rate amounted to Rs. 10,945 against Rs. 21,453 of last year.

7. The year was very unfavourable from an irrigation point of view, yet owing to judicious distribution of the available supply results are better than might have been relieve the trying situation, some canals of the Indus, Series, i.e., Ghuttu, Puran, and Maggi were opened during winter for rabi flushings which did immense good to rabi crops.

The Chenab river erosion necessitated the construction of new upper heads for the Karam and Taliri Canals, while a common upper head was constructed for the Kot Sultan and Magasson Canals due to the failure of the latter owing to the westward tendency of the river Indus.

No works of any magnitude could be undertaken owing to the necessity for economy arising from the war.

Prevalence of influenza resulted in some temporary dislocation of work during the year.

SHAHPUR (PROVINCIAL) INUNDATION CANALS.

(SUPERINTENDING ENGINEER-MR. W. P. SANGSTER.)

Captial Account— Kharif, 1918. Babi, 1918-19. 1. No capital account is kept for these canals.

Extensions and Improvements.

- 2. No expenditure.
- 3. Rs. 15,926 were spent on the usual maintenance and repairs and on silt clearance as against Rs. 13,603 in 1917-18.
- 4. The rainfall was 9.09 inches (kharif 6.49 inches and rabi 2.60 inches) against 26.48 inches in the previous year. Of the kharif rainfall 2.16 inches fell in April, 0.38 inches in June, 1.58 inches in July, 1.56 inches in August and 0.81 inches in September. The month of May was rainless. During rabi there was

mo rain in November whilst in October, December, January, February and March the rainfall aggregated to 2.6 inches only. Owing to failure of summer rainfall the demand for canal water was naturally vory keen. The supply in the river was insufficient. The canals did not work satisfactorily during the year. The date of opening and closing the canals were as follows:—

Raniwah ... 2nd May 1918 ... 28th August 1918
Corbynwah ... 8th May 1918 ... 1st Soptember 1918

Area irrigated— ... 5. The area irrigated compares as follows with the averages of the two preceding triennia and with the figures of 1917-18:—

•	Season.		OF 3 YEARS	Arba irbigated dubing	
		1914-15.	1917-18	1917-18. 1918-19 14,988 10,22	
	ţ				
Kharif	***	 20,080	8,790 14,98		
Rabi	•••	 10,851	16,838 .	10,097	2,954
•	Total	 31,011	25,128	25,085	13,183

- (a) The figures for the triennium ending 1917-18 give a false idea of the relative areas of *kharif* and *rabi* irrigation owing to the *kharif* irrigation of grass having been, in part of that triennium, incorrectly transferred to the *rabi khatauni*. This incorrect practice has now ceased, but it will necessarily vitiate the triennial averages for *kharif* and *rabi* for some years.
- (b) The area successfully matured and assessed was 12,021 acres as against 23,706 acres of the preceding trionnium. The decrease is due to unfavourable conditions of the river and failure of timely rainfall during the year.
- (c) Revenue was remitted on 119 acres for short supply and 369 acres for had germination. Besides this 674 acres were also remitted under Tenancy Rules.

'Financial results based on collections— Rabi, 1917-18. Kharif, 1918. 6. The gross revenue realized amounted to Rs. 41,614. Details compare as follows with the averages of the previous triennium:—

Details.	Average for 3 years ending 1917-18.	Year 1918-19.
Total assessements (Direct and Indirect) Receipts (Direct and Indirect) Working Expenses Net Revenue	51,714 50,086 45,390 _4,696	17,188 41,614 30,018 2,595

There was a net profit of Rs. 2,595 on the year's working which is partly due to curtailment of expenditure on maintenance and repairs and partly to adjustment of Establishment charges proportionately according to works outlay instead of the fixed amount of Rs. 24,000 per annum.

General remarks.

7. (a) Designs for linking up the Raniwah Canal with the Shahpur Branch are in hand.

(b) Corbynwâl is a small channel which irrigates principally pasture land, most of which is free from assessment.

SIMLA:

.F. W. WOODS,

The 9th October 1919.

Chief Engineer, Irrigation Works, Punjab.

GOVERNMENT OF THE PUNJAB. PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

Part II.

STATISTICAL STATEMENTS FOR THE YEAR 1918-19.

		TENTS.	LE OF CO	TABLE	
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2	•••	•••	in the Punjab	Statement of Canals in t	IA.
4	Punjab	Works in the	the Irrigation to end of, 1918-19	Capital Account of the Province for, and to e	IB.
5—7	Works in	of Irrigation March 1919	inancial Results year onding 31st	Statement showing Fina the Punjah for the ye	I C.
8-9	rrigation ne end of,	Results of I	the Financial mjab Province for	Statement showing the Works in the Punja 1918-19	II C.
10	•••	•••	itions, 1918-19	Demauds and Realizatio	III O.
11	•••	s	sed on Assessment	Financial Results based	IV O.
18	the year	?unjab during	on Canals in the]	Statement of Traffic on (~ I D.
18	in the	ffic on Canals	itities of Raft Tra year 1918-19	Description and Quantity Punjab during the year	II D.
1419	ites woro	during 1918- Occupiers' Ro	Punjab Canals	Areas irrigated on the P Appendix A showing a remitted	IE.
20	Water	and Assessed	ng Expenses a	Incidence of Working Revenue during 1918-	II E.
2125	L9	during 1918-1	of Crops irrigated	Quantity and Value of	III E.
2627	during		nt of Irrigation	Comparative Statement 1917-18 and 1918-19	IV E.
00 40	Canals	force on the	ccupier's Rate in	Statement showing Occi	IF.

					STATEM	ENT OF	CANALS
						MAJOR 11	ROPTABIA
Particulars.	Canal i r s n ish and	Sirving	Clyal,	Doat	Doab	Canal.	Canale
*ARTICULARS,	1 Jamur 11g S h, Briti 16.		Nabba Jind	Baci	Bari	Upper Chenab Canal.	Lower Chonad Canale
	Western Jumns Canal including Siran Branch, British and Patials.	British,	Patinla, Nabha nnd Jind States.	Upper Canal.	Lower Canal.	Tpper (Lower
1	2	8	4	5	6	7	В
irce of an pply	Jumne.	- Sa	liej.	Ravl.	Ravi and	Chenab,	Chenab,
nimum dis- chargo of river.	per 2,167	2,780	-	1,272	Chennb.	9,834	3,584
(During the year "	2,441	3,536	-	2,420	60	4,800	3,254
(As designed ,,	0 178	3,910	2,160	5,000	6,750	11 742	8,313
ximum dis- harge of canal. Now anthorised ,,	0,480	5,461	3,0 30	6,700	6,750	11,674	10,780
(During the year	., £,820	1	•••	, 6,199	5,181	12,260	10,760
at Unfaint favens opera	thes (a)40°82	(2)17-20	(6)18-74	(a)21·49	(1)10.67	(e)11·6	(c)13·44
ss area commanded Ac	es 2,786,268	1	1,854,500	1,782,560	1,001,471	1,612,720	3,864;067
iturablo area commanded	2,815,077	2,273,467	1,029,000	1,591,346	1,979,951	1,532,112	2,580,506
a proposed to By complete project ,	803,555	761,511	420,000	821,666	877,909	649,867	1,500,000
mally. (At present ,	893,665	750,000	420,000	821,805	919,071	658,291	1,726,190
ctioned Estimato-							
	1,05,54,269	2,20,13,000	1,44,07,175	1,57,23,565	2,16,69,910	8,61,31,583	2,50,84,175
ndirect charges	7,50,277	12,73,126	494		0,64,482	12,25,411	8,31,791
Matal Matarata	. 34,27,795	87,03,620	***		31,29,917	71,03,568	66,50,277
CDirect about	1,47,32,311	2,84,76,625	1,44,67,175	1,67,23,565	2,57,68,319	4,44,60,692	3,31,66,248
enditure to Indirect charges	1,80,62,032	12,12,220	1,48,22,486	2,16,58,142	2,21,70,812	3,47,71,692	3,17,16,847 7,79,971
nd of 1918-19. Interest during con-	# 8,10,050 # 32,03,964	85,45,401	***	7,33,620	4,75,397 39,00,649	0,97,675 88,09,516	64,53,313
Total Expenditure	2,20,81,128	3,42,31,255	1,40,22,435	3,89,93,800	2,65,46,818	4,40,78,783	3,59,48,529
rks as now canciloucd— lain Canals, irrigation N	iles · 62		9	ro			6 40
ranch Casals	., 243	279	219	205	132	173	287
ranch Feeder Canals			404	10			:,,
	. 6					•••	
istributaries, treigation	1,846	1,593	1,810	1,541	1,167	1,177	2,245
ower Chantang Nala Canal Distributories	. 45	•••	•••	790			
ibavo— nvigabia Channels •••	, 121	92	4 8				•••
ks completed to ond of 1918-19-	82	3	9	80	,	,	(60
ratch Canals	215	279	219	295	132	178	887
ranch Feeder Canals '	, i., .		***	■16	*;;		·
ower Chantaug Nala Canal	. 4		٠.,				
stributaries, irrigation	n 1,848	1,593	1,910	1,541	1,165	1,175	2,241
owe. Chantang Naia Canai Distributaries	., 45		in			• •••	
bove— arigable Channels	,, 121	- 92	46	=		=	

NOTE,—Miles shown in this statement

*Salampur and
fluctudes 4 miles
(a) Average rainfall for the last 40 years
(b) Ditto ditto 35 do.
(c) Ditto ditto 29 do.
(d) Ditto ditto 17 do.
(s) Ditto ditto 12 do.
(s) Ditto ditto 13 do.

IN THE PUNJAB.

WORKS.						MI	SOR IRRIG	ATION WOR			
Upper Idelam Caual.	Lower Jholun Canal.	Upper Sutlej Canals.	Sidhnai Canale,	Indus Inundstion Canale,	Sladpar (Imperial) Inuudation Canals.		MALS.	Lower Sutloj Inan- dation Canals,	Chenah Inandation	Muzaffargarh Innuda- tion Canals.	Shabpur (Provincial) Inundation Canals.
9	10	11	12	13	14	15	16	17	18	19	20
Jhelam.	Jhelum,	Butlej.	'Ravi	Indus.	Jholum.	Gha	ggar.	Sutlej.	Okenab.	Indus Chenab	Jhelum.
4,514	•••	8,001	41.	9,439		***		2,580	808	808	***
8,416	400	8,890		23,420	400	***	***	4,439	1,785	`	400
- 8,500	8,800	4,985	2,120		1,100	1,000	200	5,555	5,103	7,584	933
.,,	8,750		2,605	***	1,100	1,410	556				932
8,511	8,044	9,378	2,890	5,812	583),028	323	5,600	4,169	9,713	682
15.07	(d) 12·46	(f) 10:30	(g) 6·98	(h) 5·08	(g) 14·73	(i) 1099	(j) 13·84	(h) 5.88	(A) 8·29	(a) 5·53	(g) 14·04
593,680	1,869,398	989,730	380,977	679,108	67,007	86,324	44,904	918,208	453,473	771,811	80,928
583,096	1,162,485	899,838	841,159	422,923	62,954	72,978	84,618	905,162	860,318	674,992	58,255
316,630	668,921	840,097	150,000	805,760	47,750	40,631	17,809	250,000	200,000	850,000	27,000
316,880	608,921	329,184	150,000	305,780	42,000	48,834	17,809	250,000	20,000	860,000	24,170
4,82,40,292	1,88,95,782	13,86,878	9,62,383	8,87,908	2,05,083	8,59,692	8,07,365		898		***
10,56,277	5,89,208	46,400	37,092	10,729	9,981	10,028	net	334		944	
73,20,746	32,98,554	e4s	89,086	***			***				
5,16,17,805	2,22,62,512	13,82,778	10,38,561	7,07,635	2,15,914	8,69,720	8,07,865		***		
4,40,87,521	1,62,68,981	17,11,255	12,90,419	29,01,560	2,14,600	3,69,407	2,86,186		,,,	,,,	
9,12,453	4,08,698	1,01,041	40,225	80,885	10,331	10,890	•••		•••		444,
85,23,413	83,69,714	8,87,090	2,12,511	6,88,207	. •••	•••					***
5,35,23,416	2,50,41,293	26,99,388	15,43,186	36,67,052	2,25,021	3,79,297	2,86,186	***		•••	177
†86	39	829	68	443	<u></u>	44	53	403	266	419	86
40	191	***			18				,,,	1.7	18
:: .	1917		***		***		***	- 1	110		1 -00,
***	•••	' 					,	•••	•••	***	
886	- 1,011	395	255	301	72	34	` ""	804	64	725	_ 6 2
<u>,</u> ,,	***	··· .	141			•••	641	*11	***	•••	*/1
,	. •••	***				·	***	***	100		1#
† 88	. 89	880	68	448	58	41	58	402	288	419	87
40	155				18			•••	400		. 13
:	`	•••	-	1,000	***	.,,	111	•••	400	***,	•••
•••	•••					***		•••	,,,		***
636	, 988	895	265	. 801	72	85	***	304	64	725	52
· · · · · · · · · · · · · · · · · · ·	***		tes.	100 "	m			•••		***	A1
ត		794	886	140	`			200	***		•••
	0.1							, , ,			

re causi miles of 5,000 feet.

Faridnagar Channels,
or Bhimber diversion.

(f) Average rainfall for the last 26 years,
(g) Ditto ditto 30 do.

(h) Ditto ditto 52 do.

(i) Ditto ditto 20 do.

(j) Ditto ditto 16 do.

(k) Ditto ditto 9 de.

I B.

CAPITAL ACCOUNT OF THE IRRIGATON WORKS IN THE PUNJAB PROVINCE FOR, AND TO END OF, 1918-19.

						Draist chia	17.ZZ TOZ) 8170	(MDITURE).				•
					Works.	Eslabilsh- meol.	Tools and Plants.	Bospeose,	Total,	Indirect charges ex- clusive of interest.	Totol charges excluding loterest.	Simplo interest.
		1		-	3.	, 1	, .	5	0	7	0	9
49-CAP	PITAL PION W	EXPENDITURE OF CHAILS OF BEVENUE.	N IRRI		Fa.	Bs,	Re.	Bs,	Rs.	Rs.	Re.	Re.
		Impuriar.		- \	1		`			1		•
Western Canal in	Jurna (To end of previous year	•••		1,51,27,038	33,24,22	2,17,026	2,13,010	1,08,52,312	8,10,217	1,70,92,823	2,40,45,37
Sirea Bran	noh.	During the year	•••		- 2,057	5 Gt ,	- 49	23,803	10,202	— 13 5	10,157	5,58,14
S)rhind Can	181 d		***		1,74,49,602	40,32,71	21,08,629	2,20,217	2,45,16,210	12,12,161	2,£8,31,397	3,17,99,57
		During the year	•••		2,248	42	31	51,017	67,403	08	57,174	8,51,22
Upper Bar Canal.		To cod of prorigus year	••	*	1,61,70,841	84,63,85	P,25,821	4,26,477	2,10,91,028	7,39,255	2,18,73,293	3,60,01,68
~ =#416		Doring the year	•	-	7,522	2,0 £	1 140	6,63,831	5,61,114	E61	E,C1,479	7,44,27
Lower Barl Canal,	, Dogg	To end of prezions your			1,01,63,818 +600	20,99,114-	10,45,701	7,47,017	2,10,01,095	4,66,565	2,21,61,550	40,51,52
-		Daring the year To end of previous year		-	1,87,159	01,762	4,010 21,02,027	- 77,137	1,75,927 3,47,79,646	0,05,760	1,44,040 3,57,76,000	7,09,88 23,00,55
Uppor Canal,		Dating the year	***	-	2,72,27,279	165,47,002	049	- 8,12,478 - 71,010	- P,181	2,115	- 0,039	12,10,52
		. To and . I	***		50,230	43,32,136	6,41,661	4,10,568	8,17,70,409	7,70,183	3,75,18,571	2,43,08,14
Lower Canni,		Destanthanes	***	<u></u> [·	3,59,52,673 5,577	1,704	. 57	- 20,020	22,194	250	22,3'5	11,04,71
W		To ond of provious year	н		3,20,01,657	49,39,413	49,13,900	0,41,004	6,11,55,890	8,61,033	4,10,97,813	1,00,37,1
Upper Canal.	American.	During the year			- 70,877	1,21,215	-301	1,31,334	- 69,359	30,510	- 37,840	15,36,2
Lower	Jhelnm	To end of provious your		}	1,29,60,160	22,10,410	8,01 220	3,07,470	1,69,82,670	3,63,423	1,62,28,120	3,09,08
Conni.		Durlog the year	***		2,72,304	1,15,093	11,499	80,410	4,98,211	10,230	4,52,430	6,68,8
Unper Sntle	ej Inno-j	To end of provioco year	***		13,73,003	2,65,198	21,687	20,361	17,10,282	1,01,011	18,17,323.	- 22,52,6
dation Car	11914* (Dorlog the year	100].		701	210	5,027	5,027		- 5,027	59,6
Sidhnal Inc	notseban	To and of previous your	,		9,45,638	2,61,017	\$9,029	44,298	12,02,002	60,225	32,32,137	33,72,8
Campie.		(Durlog the year	***		144	447		-1,853	- 1,523	W1	- 1,555	44,0
Iodna Ior			.,	**	23,59,761	4,59,118	25,153	£7,999	27,00,255	803,68	\$9,80,723	21,36,0
Canals.	•	During the year	***	**	567	90	-3	1,605	1,005	- 12	993	1,01,
	(To end of previous year	210		716,73,02,979	3,20,07,820	1,30,05,019	43,40,143	21,63,07,018	£1,98,148	22,33,05,154	15,65,40,5
Total		During the year	144		4 500	3,30,854	15,813	3,50,018	11,49,169	68,210	17,06,387	75'59,7
		Corrotnution.		_ -	4,50,557		 					
				- (•	,						_
Westorn Canal,	S1 rss-	To and of pravione year	140	"	9,00,168	2,88,642	23,703		[1,00,478		11,60,478	7
Brach.		Doring the year To end of presions year	714	"	***			1 "	117	103	1,43,21,300.	
		To oud or brasions leat	(Patiele	"	07,49,683	93,71,073	12,01,501		1,49,21,257		086	
Sirhind Can	al	Doring the year	4 Nobha		82	. 200	, "i		101		101	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Jiod		70	18	1		89		E0	,
							.	<u> </u>			1,04,81,828	
		To end of previous year		**	1,06,48,651	30,07,615	12,25,260	1	1,64,81,785	1	1,170	, =
Lator		Daring the year	***	-	937	238	12	<u></u>	1,179	<u></u>		
Tojal		ODER AND MARK	GATTO	N.				1	L]		
	ior w	ores and navi				80,200	613		2,05,933	1	2,15,914	***
48-MIN		To end of previous year			1,70,060				8,707	1	9,107	iii
	anal	To end of previous year During the year	***		1,70,060 6,008	2,40		1			3,76,157	447
48-MIN Shehpur Ca	onal Cann	To end of previous year During the year To end of provious year	***	- 1	0,008 2,91,610	02,803	7,023		3,03,985	1	i i	-
48-MIN	onal Çanni	To end of previous year Durnog the year To end of provious year During the year		10	0,005 2,91,610 9,902	02,503	7,023		9,043	108	3,140	77
48-MIN	Canni Canni	To end of previous year During the year To end of provious year During the year To and of previous year			9,005 2,91,610 2,903 2,39,621	02,503 700 44,28	7,023 3 3 2,63	 	3,045 2,85,45	06	3,140 · 2,85,154	-
48-MIN Shehper Ca Ghaggar Imporial	Canni Canni	To end of previous year Durnog the year To end of provious year During the year		 ru	0,005 2,91,610 9,902	02,503 700 44,28	7,023 3 3 2,63		9,043	06	3,140 · 2,85,854 722	i .
48-MIN Shehper Ca Ghaggar Imporial Chaggar Contribu	Canni Canni 1. Oesn	To end of previous year During the year To end of provious year During the year To and of previous year Doring the year To ond of previous year			9,005 2,91,610 2,903 2,39,621	02,803 700 44,28	7,023 3 34 5 2,53	201 201 102	3,045 2,85,45		3,140 · 2,85,154 722 0,02,071	***
48-MIE Shehper Ca Ghaggar Imporial Chargar Cootrib	Canni Canni	To end of previous year During the year To end of provious year During the year To and of previous year Doring the year To ond of previous year			9,008 2,91,640 2,303 2,39,621	02,803 700 44,28 26	7,023 34 3 2,539 7.	 	3,047 2,85,454 735	20,775	3,140 • 2,85,155 722 0,02,071	
48-MIE Shehpur Ca Ghasgar Imporial Ghasgar Coorrib	Canal Countries	To end of previous year During the your To end of previous year During the year To and of previous year Doring the yaur To ond of previous year During the year		10 	6,008 2,91,640 3,303 2,59,621 6,00,700	02,801 700 46,28 16 75,00	7,023 34 5 2,53 7 1 2 8,53	6	3,C43 2,85,45 73: 5,71,29	20,775	3,140 • 2,85,155 722 0,02,071	
48-MIN Shehper Ca Ghaggar Imporial Ghaggar Gootrib	Candle. Candle. Connection.	To end of previous year During the your To end of provious year During the year To and of previous year Doring the year To ond of previous year During the year To end of previous year To end of previous year		10 	4,007,700 4,007,700 2,39,621 4,007,700 6,300	02,803 700 44,28 0 26 0 93,00 3 3,20 44,28	7,023 3 34 5 2,536 7. 5 8,53 14 28	6	5,045 2,85,45 73: 5,71,20	2 08 3 9 20,773 9 445	3,140 2,85,156 722 0,02,071 { 11,700 + 448	} :::
48-MIN Shehper Co Ghasgare Imporial Ghasgar Gootrib	Cannol Corn Corn Corn Corn Corn Corn Corn Corn	To end of previous year During the your To end of provious year During the year To and of previous year Doring the year To ond of previous year To ond of previous year During the year To can of previous year	T	100 100 111 111 111 111	6,005 2,91,640 9,303 2,59,621 6,00,700 6,800 2,35,63	02,503 700 46,28 16 0 93,00 3 3,20 44,20 16	7,023 34 5 2,534 7 2 8,53 14 28 16 2,55	5 5 6 7	3,C41 2,85,454 73: 5,71,29 11,79 2,65,45	9 20,775 9 44 4	3,140 2,65,156 722 0,02,071 { 11,709 4 448 2,88,451 782	} :::

I C.

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STATEMENT SHOWING THE FINANCIAL RESULTS OF THE IRRIGATION WORKS IN THE PUNJAB PROVINCE FOR THE YEAR ENDING S1st MARCH 1919,

STATEMENT SHOWING THE FINANCIAL RESULTS OF THE RRIGATION REALIZATIONS UNDER THE MINOR HEADS OF

		T			RE	VENUE (ACTUAL I			R THE DI		
	•					1	I	1	<i>,</i> .		i	
IRRIGATION.		Walovrate diroelly paid.	Share of land revenue and sale-proceeds of waste and other lands,	Owners' mies.	Total,	Navigntion.	Plantation,	Water power,	Misosilaccous.	Total.	Refund of rovenue.	Gross receipts less rafunds,
1			3	4	5	6	7	8	0	10	11	13
PBODUCTIVE WOR Inference.	1K8.	Rs.	Rs.	Rs.	Ra.	Re.	Rs.	Re.	Re,	Rs.	Rs.	Ra.
Western Jumus Canal		- 24,96,63	0 2,1874)	_	27,15,371	06,117		4,053	53,669		916	An 2-1 1-4
Strbind Canal		24,75,31		**	25,73,700	- 11,418	36,863 39,061	1,32,219	1,13,407	25,76,072	9,053	29,55,164
Upper Bart Doab Canal	***	97,52,30		***	44,30,055		37,449	1,23,813	5,08,059	20,60,601 51,09,534	3,111	51,00,423
Lower Bart Doeb Canal	•••	21,00,72			45,87,219		6,492	101	1,00,360	48,01,100	261	40,03,639
Upper Chenab Canal	•••	10,30,02			19,49,173		400	966	38,557	10,99,220	885	19,87,335
Lower Chenab Canal	***	88,37,11		1	1,65,17,801	817	20,457	16,094	01,659	1,66,21,819	801	1,68,91,217
Upper Jhelum Canal	***	7,07,07	1]	7,87,071		1,105	414	41,467	8,00,543	. 38	8,00,505
Lower Jhelam Canal	***	20,17,77	15,91,182		42,11,030		6,915	81,169	27,512	43,77.251	140	47,77,101
Upper Snilej Innudation Canals	440	5,41,04	7 2,83,150	:::	8,30,007	***	2,223		8,766	8,41,088	177	8,40,000
Sidhnat Inundation Canals	•••	6,05,03	1 2,02,393	45	8,07,472		1,620		2,650	8,11,049	25	8,11,023
Indus Inundation Canals	***	1,11,40	2,20,273	=	3,40,787		3,020	`	80,033	4,29,590	***	6,20,790
•	Cotel	2,61,26,98	5 1,30,01,207	+45	8,07,89,677	57,852	1,04,506	3,07,956	10, 12,702	4,13,23,163	8,341	4,19,14,013
Contribution,												
Western Jumna Canal	***	2,01,90		**	2,94,900	***	534	238	4,359	3,00,059	2	3,00,057
Sirbing Canal	***	18,61,01	ت. ا		18,61,010	6,473	16,402	57,007	39,607	10,60,580	4,452	10,76,107
•	Paial .	21,69,94	,	141	21,58,010	8,479	10,030	57,303	40,990	22,90,049	6,494	22,76,164
WORKS FOR WHICH ONLY ACCOUNTS ARE KE	RKVENUE PT.											
CAMALA IN OPERATIO	ď.]			,				`	
Lower Sutief Inundation Canal		. 2,55,47	2,77,755	=	5,33,234	700	1,697		1,783	8,38,714	75	5,30,630
Chenab Inundation Canals	m .	1,07,91			4,94,687	ı : .	8,716		2,350	4,77,762	121	4,77,639
Muzallargarh Inundation Canale		2,60,59	3,71,778	100	6,31,365	3 4	0,543		3,213	6,60,121	280	0,29,911
3	Total .	7,12,07	0,18,278		16,91,250		10.956		0,305	16,54,697	479	18,64,118
Works for which Capital A	en Revenus											
ACCOUNTS ARE EXPE		1					1		1			
Shabpur Canal		01,470	20,618	;; ;	82,007	417	<i></i>		٠	62,097		62,097
Gaggar Canal		12,277	' ""		12,277	***			•••	12,277	4.0	12,277
(Cor	tribution .	3,000			2,003		1++	<i></i>	201	(f) 2,294		2,201
Total	mperial ,	- 73,55	20,018		04,374	***	`,,,,		•••	94,874	•••	04,374
	ontribution .	2,00			2,003		<i></i>	644	_ 201	2,291		2,294
PROTERCIAL,	•		1						•			
Shahpur Canal		29,48	12,130	***	41,014	•••	,,,,	***	***	41,014	***	41,614
"Rayl Imudation Canals			=	=		***	E .	•••	•••			
- :	rotal :	29,43	12,130	==	61,814		F		•	41,614		41,614

⁽e) Includes Re. 1,292 credited to Patinia State through (b) and (c) include Re. 22,037 and Re. 37,850 respectively (d) includes Rs. 61,647 massed through the Administrative (l) Includes Rs. 314,748, Rs. 87,807 and Re. 3,474 spent (f) These figures have been reported by the Bikaner State. (c) Includes Re. 2,392 apent by the Bikaner State. (e) Includes Re. 2,392 apent by the Bikaner State.

WORKS IN THE PUNJAR PROVINCE FOR THE YEAR ENDING SIST MARCH 1919.
REVENUE AND WORKING EXPENSES.

							TAIAIK	ENANCI	107 TO	KS.			· .					<u> </u>
	E-1187161			E		Entadut	BRXBRT					Plant,		f malatenarce,	charges.	37gce.	Grand Total Working Expenses.	9
Direction.	Executire.	Navigation.	Civil Officers.	Total.	Direction.	Execuliee.	Medical.	Tetal.	Works.	Reyalra,	Prulzies.	Tools and Plant,	Plantation.	Total cost of	Total direct charges.	ladirect charges.	Grand Tota	Net Bersnue,
13	14	15	10	17	15	19	23	2)	22	21	21	25	26	27	23	20	30	81
Rs.	Ro.	P.s.	Re.	Rs.	Rs.	115.	Rr.	Re.	Re.	Br.	Be.	Es.	Rs.	Fa.	Rg.	Re.	Rs.	,Ro.
۳.	4,08,350		C7,5 ² 1	4,73,781	***	1,70,91	441	1,50,541	P7,547	5,21, V3	1,570	0,470	10,900	7,82,203	12,56,110	85,209	13,11,147	15,88,701
***	1,02,474	***	13,215	4,75,710		92,851		92,591	60,000	4,54,616	17	6,000	21,5 2	¢,21,637	11,00,936	61,512	11,51,578	16,65,85
40	4,62,230 3,79,770	***	87,072	8,25,712 4,15,231	**	97,161		63,171	[9,77]	4,61,543		10,500	30,116	1,77,012	12,32,024	£9,855	13,22,309 11,71,001	87,84,116
111	3,11,777		60,174	7,24,876		1,11,767 1,44,104	l	1,11,787 1,14,193	89,600 21,602	4,10,219 0,01,029	6,270	11,160	81,102	0,52,Ps7 8,14,F99	10,03,121	75,553 75,522	12,69,000	7,00,332
***	5,55,507		2,29,2%	10,21,0-2	<u></u>	1,10,714		1,11,792	1,54,550	5,10,633	21	inter	52,121	11,78,175	22,13,157		23,71,976	1,42,47,271
	2,52,212	,	21,7c2	3,61,114		1,21,827	٠	,21,653	20,:01	2,57,955	- :	-35	12,730	4,37,851	F13,42,0	82,015	7,37,015	62,500
1	7,12,53		71,921	4,14,272		44,021	***	44,021	67,237	2,67,224	572	15,000	8,514	3,61,100	7,05,400	61,806	8,64,215	21,10,699
***	1,21,-10	•••	11,147	1,37,7.0		45,574	•	47,276	10,611	1,52,4-1		3,215	10,785	2,23,203	3,86,100	10,509	3,70,297	4,61,512
***	81,626	•••	6,414	20,710	-	2,47		2/10	<i>\$</i> ,6.1	34,164		159	6,277	£3,295	90,135	5,633	05,789	7,10,100
***	62,157	_	5,474	[7,632	۳.	47,111	***	47,414	\$5,513	1,13,019		1,410	P,033	1,59,213	2,55,851	16,003	2,40,590	1,59,901
***	35,44,757		6,13,591	42,41,749		0,87,635	14)	0,63,106	0,92,417	\$7,71,1CD	6,050	74,703	2,53,650	ro,47,129	10,262,075	1,2,755	1,10,11,43;	8,00,00,511
***	1. 15			251	•••	√() √(,221	-41	37,521	10,7/5	(c) 65,216	, 03	457		1,02,715	1,02,051		1,02,081	2,97,650
111	21,7.5			21,/33	P#1,	1,00,025		1,00,02%	11,910	E, 4.3,150	£12	6,774	0,457	1,63,691	7,73,167		7,75,657	12,05,547
	417,12			2 ,420	-	011,07,1		1,84,116	05,75	0,00,172	5''3	0,721	B,437	F,54,720	P,76,649		£,78,519	13,07,010
		•																
, \	ធំ,កមា	*1	8,104	10'tuð		10,518	***	12,618	1,05,000	81,537	2,781	1,509	2,573	2,65,750	5,20,067	19,570	7,11,627	1,01,721
***	£1,611	241	10-7	21,511	***	21,076	**	\$1,07A	0,6-1	17,71	70	899	6,650	1,15,033	1,62,251	10,093	. 1,75,517	3,02,111
·	C9,511	***	8,511	74,124	,,,	64,721	(14	20,703	21,763	1,62,531	-1,925	1,451	12,535	2,43,749	9,21,647	10,165	3,11,002	2,109,710
	1,55,021		10,842	7,0,07	111	1,***,#\$2	٠-	1,0-,227	1,53,189	3,14,2 m	043	4,612	21,419	6,13,211	e,13,508	47,539	8,01,516	7,92,512
•																		
~	20,6-49	•••	1,020	£7,019	6~	0,446		9,606	10	25,449		1,791		34,61.2	₹0,4¢3	1,510	61,019	19,097
·	7,2 3	104	293	7,-10	,,	0,001	400	२,६३१	2,479	8,103		120	6	11,003	10,229	1,423	20,701	9,514
1	•••	<u></u>		w ((c) 2,011	,.,	2,911	632	8:U,6		71		9,510	8,119	,	9,610	-6,233
	29,244		1,604	50,212	м,	12,647	,	12,547	2,135	37,203		1,217	D	44,800	78,762	6,052	61,531	0,577
-4					. 	7,011	,,,	7,018	323	8,010		71		6,510	8,510		6,515	-6,238
₩.	12,061		204	12,747	103	6,551	.29	0,4.1	24*	18,500	4 1	(7)		29,175	34,265	2,765	\$9,01P	2,105
111	.,,	***		, 113 	**				15.		٠,,		<u>_</u>	121				;
1	12,051	444	109	12,747	i	0,831		0,581		10,026	· •	071		21,478	30,205	2,751	32,019	2,5113

the Administrative Accounts of the Province, spent by the Patishat? at 700 manufationer of fluto channels, Accounts at the Protice, and the Rative State of Patisha, Nabba and Jied, respectively,

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

1	1		•		General Fin.	encial Results 2	TO END OF 19	18-19.		
No. of works;	Name of works.		Olstribularies.	Estimated cost of coustrac- tion (direct and indirect).	Date of completion of work (P. W. D. Gode, II, 1918).	and own the system first came late operation.	Total capital outlay (direct , and indirect).	lecumlated arrears of	Accumulated surplus	Total sum-st-chargo (column 7 + column 8).
1	2	8	4	5	Ga	68	7	8	9	10
_	MAJOR WORKS. PRODUCTIVE WORKS.	Viles.	Miles:	Rs.	Date.	Date.	Re.	Rs.	Rs,	Rs.
1	Western Jumna Canal including Sirss	(a) 294	(b) 1,740	1,74,75,813	1886 Sirsa Branch 1891	1820	1,77,11,086	•••	5,51,66,023	1,77,11,689
2	Sirbind Canal	818	1,693	2,14,79,282	1896-87	1833-84	2,56,83,854		2,00,76,761	2,56,88,85
3	Upper Bari Donb	325	1,657	2,16,27,216	1878-79	1860-61	2,23,06,763	, _{***}	5,15,44,620	2,23,98,76
4	Canal. Lower Barl Donb	133	1,165	2,17,89,793	31st March 1917	1918-14	2,26,45,199	8,07,025	***	2,84,54,12
5	Canal. Upper Chenab Canal	173	1,175	3,51,44,803	Sist March 1917	1012-13-	8,67,00,667	68,40,263	***	4,24,15,83
6	Lower Chemab Canal	427	2,245	8,26,30,766	1899-1900	•	8,24,96,216	•	15,10,56,744	8,24,98,91
7	Upper Jhelum Canal	128	636	4,30,23,226	Sist March 1917	1015-16	4,49,99,978	1,28,03,067	•••	5,76,93,08
В	Lower Jhelum Canal	195	233	1,65,01,284	31st March 1917	1901	1,65,77,679	600	2,29,44,909	1,66,77,57
9	Upper Satlej Innada- tion Cazale.	330	895	17,07,010	Upper Satlej 1858-59 Lower Febag and Para	1855 1854	(a) 18,12,298	•••	39,53,301	18,12,29
10	Sidhnai Canals	68	255	12,87,939	1895-86 1880	1880	18,30,674	***	74,90,780	13,30,67
11	Indus Inpudation Capals.	448	301	29,22,682	1819 60	Prior to 1849	29,81,745	7,07,027	111	20,83,77
	Total	2,638	12,050	22,04,62,278	449	, 402	22,46,11,661	2,08,51,272	31,30,60,207	24,53,65,82
	Contributions.									
12	Western Jumpa Canal	85	161	11,60,478	487	•••	11,60,478			11,60,47
18	Sirbind Count	219	1,810	1,43,18,817		***	1,43,22,438	•••		1,43,22,49
	Total ,	251	1,961	1,54 79,295			1,54,82,914			1,51,82,91
	Works for which Capital and Revenue Accounts are kept.				***	•••				
14	Shahpur Canal	60	72	2,25,021	1170-71	1870	2,25,621		12,03,959	2,25,02
	Ghaggar Imperial	64	84	3,80,478	1699-99	1897 .	8,81,754	11,21,699		15,00,48
15	Canal. Contribu-	53	•••	2,65,442	***	7:1	2,86,186			2,86,18
	Total {	110	106	6,05,499	`	při	6,00,776	11,21,699	12,08,959	17,81,47
	(Contribution	58		2,85,442		***	2,88,188			2,86,18
	Worls for which only Revenue Accounts are nery.				-	•				
16	Lower Sutlej Inunda- tian Cauals.	402	304		1895	Were in apera-	ſ	ni	81,22,847	
17	Chepsb Innudation Canals.	266	64	161	1895	annexation of the Ponjab by		***	75,06,931	177
18	Muzzurgarh Inunda- tion Cazals.	619	725		1896	the Panjab by the British.			86,90,508	
	Total .,.	1,087	1,093	***	***	•	·	300	2,48,09,784	. ***
	Provincial.									-
		1	53	1				,,;	2,78,251	=
19	Shabpur Canal	55	03	***		• • • • • • • • • • • • • • • • • • • •			1	1 .
19 20	Shabpur Canal Ravi Canal			110	***	•••	•••			-

*Opened as an Inundation Canal in 1887 and as a Percunial Canal in 1892.
(c) Includes 4 miles and (b) 45 miles of the Lower Chautang Nallah Canal,

C. WORKS FOR, AND UP TO THE END OF, 1918-19.

			FINANCIAL	RESULTS OF	THE TELE 1918-1	0.			
Grou receipts (direct and indirect).	Working expenses (direct and indirect).	Net Borendo.	Pere n'ago on Capital out- lay, column 7.	Percontago ou sum-at- charge, column 10.	interest at 3.5318 per cent. on the direct Capital out- lay to end of the previous year piter balf the outlay of the year.	Not profic.	Not loss.	Area irrigated.	Porcentago of working ex- pouses to receipts (column 11 to coloun 12).
11	19	13	14	15	16	17	18	19	20
Rs.	Ra.	Ra	2	%	Rs.	Re.	Rs.	Acres.	K
25,75,151	13,61,467	15,33,707	39·3	s-ca	5,95,113	0,45,503		6,58,E95	46 65
25,67,716	11,91,588	16,95,949	6.23	c 56	8,51,225	8,31,620		8,87,875	41.21
#1.CG,423	13,22,369	87,81,114	16:59	16:59	7,44,273	30,50,8:1	}	10,65,040	32.83
40,90,639	17,71,501	35,21,935	15.55	15.01	7,68,883	27,53,053		6,76,004	210
19,87,335	12,50,996	7,00,000	1:07	1.00	12,10,823		5,04,494	5,26,861	, 6:3
1,00,21,247	23,71,976	1,42,49,271	48.85	43:85	11,01,710	1,01,44,601	***	23,39,199	14:28
8,00,505	7,37,617	62,850	14	•10	15,35,229		14,73,380	2,40,009	- 92-1
42,77,101	8,00,215	81,16,496	20-49	20-49	8,59,956	28,59,030		7,77,498	20:17
8,40,959	3,76,397	4,61,512	25 03	25-63	50,670	4,01,612	***	2,69,499	417
8,11,927	05,75 8	7,16,135	53·62	29.03	41,059	6,71,177	•••	2,29,307	11:7
4,29,790	2,70,939	1,59,004	. 6:33	6:30	1,01,002	57,902	•••	1,81,097	83.0
6,18,14,912	1,10,14,431	3,03,00,511	13.00	1231	75,69,776	2,47,09,699	19,77,958 1,786	77,48,95 3	28'0
									1
1,782	61,191	-59,912	· -5·16	-5:16	403		59,912	01,697	4,773-3
61,017	3,39,552	-2,52,505	-1.76	-1.76	4		2,52,505	5,37,526	400-5
85,929	3,77,710,6	-3,12,117	2:03	-2-02			3,12,417	5,99,163	456-1
1									
82,097	64,010	18,057	8:01	8.01	7,928	10,784	i	16,727	1774
12,277	. 20,791	-8,814	221	•56	12,774		21,288	11,470	169:
,,,	2,869	-9,859	400	-90		***	2,859	1,315	
81,374	61,601	9,573	1.21	22.	20,007	10,764	21,258	29,100	63:5
117,014		0,010	10,		20,001	10,	624 		
	2,859	-2,859	-99	-00	***		2,850	1,343	
[1		()						
r'20'030	0,44,027	1,01,712	;	•••	in	1,51,712	,	1,89,916	61
4,77,039	1,75,627	9,02,111	•••			0,02,111		1,26,029	36
6,39,841	3,41,093	2,08,740	144		,	2,98,749	401	3,08,563	581
16,54,118	8,61,540	7,92,572	***	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7,02,672	***	6,35,108	62
61,014	39,019	2,595	400	****		2,595		13,183	93.
	***		1	.41					
			***		,	1		,	J

III C.

STATEMENT SHOWING DEMANDS AND REALIZATIONS IN THE PUNJAB PROVINCE
FOR THE YEAR 1918-19.

Namo of Canal.	Bairnee of deconnity remaining unrealized at the commencement of the year.	Demands during the year,	Trial,	Pelaciel keniniose not inciuling cush refauls.		Realizations.	Amount unrealized at the close of the year.
1	2	3 ′	4	ទ	ò	7	8
XXIX—Major Works— Direct Recuters. Valer or occupier's rate.	lte.	îte.	fie.	Re,	Rs.	Ra.	Es.
	. 78,761	25,70,743	26,40,003	1,41,510	25,03,525	2765'530	F.105
	33512	20,00,00	20,71,456	\$3,324	53,57,55	23,74,710	1.52 027
	1.2,70	34,00,070	39,23,560	61,237	87,05,020	a7,52,557	40,256
	1,632	23,65,650		2,63,277	21,01,055	21,00,72	4,279
	1,69,189	18,52,104	19,90,267	1,21,10	19,65,507	19,00,621	35,70%
~ ~ ~ 1.6.1	5,453	89,50,115	83,*0,116	70,151	55,88,631	89,77,118	1,536
Upper Jhelam Carel	1,163	7 67,165	7,55,518	7,117	7,53,421	7,77,971	1,550
Lower Ibelum Carril	. 6,157	24,10,349	25,26,535	503	2025,759	23,17,771	370,7
Upper Sutlej Inundition Canals .	7,455	6,56,459	5,40,917	40,054	5,10,590	£.11,£1°	1,612
S'Anal Inundation Canal	1,277	6,05,359	863,23,0	ïo	6,66,416	6,05,003	1,5%
Is das Innudation Causte	32,555	1,00,005	2,02,573	63	2 85,00 ;	(a) 1,92,55 ·	13,46
Total .	8,21,465	5,54,65,752	2,71,72,757	6,51,775	2)(155,751	0,40,67,74	2,91,83)
Owner's rate.							
Lower Chenab Can il ,		7,516	317,7	; <u></u>	7,516	7,510	494
XXX-MINOR WORKS AND NATICATION.			,				
(Imperial.)							
Lower Suilej Inurdation Canala .	}	2,31,713	2,37,511	875	2,25,566	2,01,110	1,153
Musaffargarh Inundation Canals .		2,40,213	2,70,408	151	2,70,632	, 2,39,557	10,915
	6,176	1,95,011	2,00,217	103	2,00,109	1,97,913	2,197
TA	- 53	21,402	. 21,155	•••	; 21,435	21,033	159
<i>j</i>	·· -1	61,714	01,713	269	61,411	61,479	-35
Glagger Canal	" ""	. 19,651	19,551	1,274	12,277	12,277	***
Total	27,014	7,75,003	8,00,277	2,103	8,01,051	7,55,784	14,230
Shahpur Canal	85	20,022	30,197	858	; 29,519	29,181	65
37 1 D (Tau-1	- 33	41,255	\$1,259		61,283	44,295	, s
Total .	118	74,577	44,692	6 58′	78,837	78,769	ea

IV C.

STATEMENT SHOWING THE FINANCIAL RESULTS OF THE IRRIGATION WORKS IN THE PUNJAB PROVINCE FOR THE YEAR 1918-19 BASED ON ASSESSMENT OF THE YEAR 1918-19 AND FINANCIAL RESULTS OF THE OPERATIONS FOR THE YEAR ENDING 31st MARCH 1919.

	Indirect	•		RLVEX	ue asse	șed di	ming th	E YEAR.			I In-	·	to end
				DEEGT &	sersend R	ECEIPIE.					Direct and	the yes	atlay b
IRRIDATION WORKS.	Capital outlay Direct and to and of the year 1915-19.	Occupiors' rates.	Owner's rate.	Plantation,	Water power.	Navigation.	Miscellaneous.	Total. \	Indlrect reacipts.	Grand Total.	Working expenses, Dir direct,		Percentage on Capital outlay of the year,
1,,,	2	, 8	4	В	-6	7	8	0	10	11	13	13	14
PRODUCTIVE WORKS.	na.	Rs.	· Rs.	Rs.	Bs.	Rs.	Ra.	Ra.	Rs.	Rs.	Ps.	Rs.	Rs.
Western Jamas Canal	1,77,11,090	20,78,975	٠	\$0,609	4,053	66,117	63,653	29,86,676	2,18,741	30,59,417	13,41,417	17,16,970	0 69
firhlad Canal	2,46,88,654	20,70,961		39,061	1,32,210	11,419	1,13,407	\$9,75,000	09,486	10,74,452	11,81,965	28,02,581	11:26
Upper Barl Doah Canal	2,23,03,762	a7,07,159	'	37,117	1,23,812		E,09,789	41,27,138	P,87,183	81,14,326	13,22,300	97,92,017	16 93
Lonc: Barl Doab Canal	3, 23,40,160	22,00,218	411	0,402			1,00,340	23,87,030	31,60,623	48,53,012	17,71,001	37,11,709	16:31
Upice Chenab Canal	3,67,60,507	20,21,637		499	•••		39,757	20,63,581	5,59,027	20,32,800	12,50,000	13,41,213	3.75
Lower Chenab Canal	3,24,96,216	89,11,819	7,281	29,437	18,094	317	61,099	gp,20,377	74,51,600	1,63,78,237	22,74,076	1,40,03,251	43.00
Upper Jhalum Canal	4,10,00,073	2,61,471	444	1,105	r		41,467	0,01,016	6,50,223	15,50,209	7,37,015	9,12,023	1.91
Lower Jhelam Canal	1,05,77,570	25,07,707		0,615	31,159		27,312	26,02,092	18,01,192	42,67,174	8,60,215	83,00,050	20:33
Upper Satlej Innudation Canals	18,12,256	4,23,274	444	2,213		,,,,	9,700	4,31,283	2,69,150	7,22,113	3,78,507	3,40,018	10.03
Fidheal Infindation Capals	13,30,674	4,31,371	45	1,623	***		2,650	4,35,835	3,03,393	6,59,289	05,753	5,42,500	40.20
Inday laundation Capals	20,81,745	1,71,277	***	8,020			84,033	2,63,230	2,20,815	4,02,015	2,70,830	2,01,769	545
Total pm	23,45,11,651	2,78,20,625	7,326	1,61,708	3,07,559	77,812	10,47,782	2,91,20,257	1, \$3,71,691	4,37,02,011	1,10,11,131	8,27,77,010	14:3
Contribution.					,								7
Western Jurana Canal	11,60,178	3,65,691	200	យ៖	230		4,750	2,69,610	•••	2,60,910	1,02,091	1,00,550	14'3
Sirhand Canal	1,43,23,430	23,50,720		16,402	87,007	6,173	26,607	21,07,930		21,07,230	7,75,567	17,21,772	12.0
Works you which Capital and	1,51,62,014	26,17,471	ļ_,	16,030	£7,503	0,473	40,990	27,07,170		27,07,170	8,78,519	18,69,031	12-2
Shah; or Canals	2,25,021	27,909	***			-	,	25,903	6,579	31,356	81,010	-32,621	
Glagger Causis (Imperial	8,65,755	6,369						4,368		4,3na	27,501	-10,429	12
Contribution	2,51,151	7,435					201	*2,720		2,726	19,610	5,703	2.0
[Imperial	6,66,775	80,170	.,,	•,,,		***		20,170	5,578	35,761	81,501	-49,017	810
. Total Contribution	2,98,186	2,435	<u></u>				201	2,729		2,720	8,510	-5,:01	20
WORKS FOR WHICH ONLY REVERUE ACCOUNTS ARE MITT.						-					 		
Lower Sutlej Inundation Canals .	i	1,07,490		1,697	ı.i		1,703	1,70,000	2,77,705	4,49,521	1	1,03,791	(t
Chenab Innudation Canals		1,60,100		6,716		-	2,850	1,71,205	1	4,39,050		£,01,123	J.,
Mutaffargarh Inundation Canals		2,82,050		0,613		٠.	2,213	2,11,612	3,71,778	6,12,620	3,41,002	2,71,525	-
PROTINCIAL WORKS POR WITCH ONLY HERERY ACCOUNTS ARE EXPL.		0,50,672		16,916			6,995	5,97,013	0,15,218	10,61,271	6,61,616	0,30,745	
Shehpar Canals		10,850	.,				l 1	15,850	1,531	17,163	39,019	-21,836	1
Bayl Canal	, <u>-</u> .						'			•••			
f* ,	I	-	محرسية ا	· I	I	!	!	L	1				,

(

Figures reported by the Bilanur State.

I D.

STATEMENT OF TRAFFIC ON CANALS IN THE PUNJAB DURING THE YEAR 1918-19.

Partion	lars,				Western Jun Canal.	nna	Sirhind	Canal.
Length of Channel open for navigation	n	***	•••	Miles		121	-	138
Receipts—								
Tollage on private beats	41	•••	•••	Rs.		187		1,855
" " Government boats	•••	***	***	,,	***		***	
, , rafts	***	• • •	•••	,,	68	,930		16,037
Carrying operations or transport	servico-				•••		·	
Hire of Government boats	•••	100	·	,,	• •	- 1	٠	
Refund of revenue	•••	***	•••	,,	·		***	
,	To	tal receipts	•••	,,	6/	3,117		17,899
Maintenance charges, including specia	ıl Navi	gation Establis	hment	"		5,265	,	8,909
	ot rove	nne of year		,,	59	0,852		13,98
Cotal number of beats plying carge	***	••• .	400		411	.	· ·	
,, ,, ,, passongors	•••	***	•••			•	***	
Total registered tonnage cargo	***	•••	•••		***		•••	
, , , , passongers	•••	944	***					
Ton mileage, Up (a)	•••	***	:	}	=	}	· •,•	
Down		•••	***		••		***	
		Total .	***		h+b		,	
Estimated value of cargoes, Up (a)		•••	<u></u>	Rs.	***		***	
, , , Down	•••	••• .	•••	77	p-may 000	l	•••	
		Total	***	,,	. • .:		****	
Number of passengers	•••	•••	•••					30,19
Rafts, Up	•••	•••		C.ft.	***	-	**************************************	***************************************
" Down	***	\$20	•••	n	2,06	7,719		1,870,20
,		Total		,,	2,06	7,719	•	1,870,30
Estimated value of rafts		***	•••	Rs.	2,90	3,700		13,45,98
Tollage on boats per ton per mile (a)	٠	•••	•••		•••		•••	,
,, rafts per 100 c. ft.	•••	1				3.19		0.80

⁽a) Details of heat traffic are not recorded (Government of India, Public Works Department, No. 78-I, dated 22nd April 1892).

II D.

DESCRIPTION AND QUANTITIES OF RAFT TRAFFIG ON CANALS IN THE PUNJAB DURING THE YEAR 1918-19.

	-		M.	ESTERN	WESTERN JUMNA GANAE.	ANAE.				SIRUIN	SIRUTIND CANAL.					E	TOTAL.		
	<u>'</u>]. <u>\$</u>	TOTAL		Pan	Parvars.		Torac.	4		PRITATE.	ATR.		Total.	ĄĒ.		Phivars.	.T.B.
Partientars.	J.,.		-																, .
		<u>\$</u>	Quantity in tons.	loor.	Value.	Quantity.	Yalue.	S. C.	Quantity in tons.	***************************************	Vains.	Quantity.	Value.	Quar	Quantity in tons.	**	Value,	Quantity.	Value.
H	-	ध्य	60	4	1/3	8	7	00	G	10	п	13	13	16	116	10	17.	18	97
RAFES.	<u> </u>	p.u	Домп.	Total.	R.	Tons.	Bs.	ď.	Дона.	Total.	Rs.	Tons,	Ra.	ďþ.	Down.	Total.	ß.	Tons.	Ř
Imber in logs, round and equared	•	1						:	1,761	1,761	1,23,270	913	63,840	:	:	- :	: ·	:	• •
Sleepers, broad gauge	;	į						:	25,533	25,633	9,57,415	23,954	8,88,231	1	į	:	:	:	'1
es offers	<u>;</u>	:	Details	of nya	. Detalls not ara liablo-eide uoto		below.	ï	4,271	4,371	1,12,103	3,846	010,00,1	i	:	:	:		. ' E
Scanlings	:	:						:	2,733	2,733	1,53,143	2,421	1,34,509	3	í	(1	i .		;
Bsmboos and reeds	:	:						;	H	Ħ	ŝ	н	72	;	:	:		:	· ! '
Firemood	:	:						1	•	:	::	:	1	:	:	i	i	 :	i
Total	:	T :	38,716	88,716	29,03,700	35,716	29,03,700	;	34,299	34,209	13,45,984	261,16	11.15 Tel,16	:	73,015	73,016	42,40,681	69,853	41,01,352

Nove-According to the new system details ander the Western Jumpa Canal cannot be filled in.

I E with Appendix A.

STATEMENT OF AREAS IRRIGATED BY IRRIGATION WORKS IN THE PUNJAB DURING THE YEAR 1018-19.

	NTWE	NUMBER OF				AREA I	RRIGATEL	AREA IRRIGATED, IN ACRES		١			AVER	GE DIS	AVERAGE DISCHARGE, CUSECS.	IN	AREA	IRRIGATED, PER CUSEC.	TED,	題
NAMES OF COMALS.	WAS IN FLOW.	H. A.	KEARIF.	127.	RADZ.	ı,	Тотах	ij			Dounce chorese.	ROPPED.	AT HEAD less TOUTH	J	AT DISTRIBUTARY	BUTARY	AT HEAD less VOLUME ES-	!	At distribu-	THE REAL
	ThadA	.ideA	Irrigated.	Assessed.	Irrigated.	Arscesed.	Irrigated.	Azzersod.	Flow.	Liff.	Area frrigatéd.	Percent- ngo of nren irrigated.	Kharif.	Rabi.	Ebarif.	Rabi.	Klarif, F	la bi.	Kharif Ra	Rebi.
1	ea .	60	4	1.3			80	c	10	11	£1	13	=	18	1 9	1	188	· =	1 8	. 5
Major Irrigation Works.													1	\uparrow	<u> </u>	Ť		İ	Ť	
Western Junna Canal (including sites. Branch, British and Poticies).	167	167-162	349,173	326,040	092'12'8	366,870	720,533	910'709-	707,103	13,339	510,87	8.18	4,295	2.605	3.438	, C	5	97		į
Sirlind Cann (British)	171	182	203,510	303,866	290'189	578,675	867,875	532,441	834,008	3,867	128,892	1.1.62	2,663	3.026	063.6	2 2	10	2 5	201	178
(Patiala, Nabhe and	111	183	218,910	218,079	318,610	318,259	627,526	536,338	635,073	2,453	119,910	23 20	2 359	1.635	9 150	2)017	2	20 20	7: 1	226
"Upper Bari Doals Caual	178	166	624,633	272,703	191,015	637,243	1,065,049	1,011,615	1,010,079	18,070	207,031	10-43	5,403	2,636	46.9	1 25.00	3 8	2 2	j ;	219
· Lower Bari Deab Canal	100	139	325,533	259,481	352,411	2:6.703	100'849	516,187	653,762	23,213	5,105	2.13	4.583	8.740	0726	7900	. E	3 6	7 1	202
•	, 169	138	201,094	196,197	222,170	219,471	425,801	415,069	424,371	2,493	5,793	1.36	3.499	1,550	2000	100'0	7 5	3,	;	917
Lower Chenab Canal	171	13	703,616	759,192,	1,643,653	1,639,666	2,339,198	2,329,839	2,209,532	39,066	1.17,50.5	6-31	9,631	7.316	24.7	9346	3 3	3 :	3 2	149
Upper Jhelum Canal	171	171 171	59,862	91,313	452'191	150,759	216,609	213,071	240,593		2,801	11.14	1.50	932	007	2 2	5 8	1 5	3 5	. Z
Lower Jhelum Canal . ",,,	169	941 691	251,601	243,663	625,593	621,266	777,496	700,919	775,203	2,233	14,492.	1.86	3.138	9 84G	0000	200	3 1	3 5	3	147
Upper Sutley Canals		165	151,155	130,253	107,344	107,3 55	268,493	213,697	255,863	2,637	17,512	0.77	3.285	}	TOO'S	chot.	- £	725	, 5	3
Sidhnai Canals	136		121,213	55,573	108,186	98,231	229,397	103,803	223,774	6,623	2,2,54	1.0	1,529		1,629		150		6 5	:
Indus Inundation Chanle	123	23	121,144	74,763	69,953	20,004	160,191	125,736	173,417	7,650	175	000	2,929		2,829		49		5	
Miner Irrigation Works.			3,105,286	3,240,712	4,862,960	4,777,397	8,345,146	8,018,109	8,227,832	120,311	720,808	8-63							;	
Shaipur (Imperial) Inundation Canals		1	6,825	4,015	10,903	7,967	16,727	11,972	16,703	23	53	0:31	420		490		\$			
Glaggar Inundation Canals (British)	_=		.1,964	1,036	9,503	9,178	11,473	11,113	11,473	:	:	•	100		100		\$ #	۔	5 ;	•
" (Blkangr)	_	:	106	. 20	1,212	727	1,349	733	1,319	1	' :	i	96		6		5 7		3, 3	
Lover Satlej Innudation Canais		88 28			93,932	85,072	180,016	1.52,290	020,77r	11,057	30	0.02I	2,064		300.5				4 8	
Cuento Intrachion Canals					50,143	45,741	126,629	68,933	131,007	5,023	1,832	1.0	2,010		3,010				3 8	
binzanargarb Inundation Canals		<u>0</u>		<u>→</u>	186,621	173,300	209,503	273,810	. 305,882	2,631	23,600	7.68	8,589		3,583		8		3 8	
Comments (Francisca) Intendution Canals	<u>«</u>	:	10,220	<u>. T</u>	3,954	[13,183	12,021	13,183		56	\$.0	117		712		19		3 5	
		-	313,334	1 228,110	351.501	325,333	007,838	553,336	618,159	19,685	25 079	3.87							,	

APPENDIX A TO STATEMENT I E.

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS, RATES WERE REMITTED DURING THE YEAR 1918-19.

_		'Khabip, 1918.					- RABF, 1918-19.			
	Cadez of remission.		Arra assessed.	Area remitted.	Total area irrigeted.	Percentago remitted.	Area umessed,	A ça romitted.	Total area irrigated.	Percentage remitted.
_	ı´		2	8	4	75	6	7	8	9
	WESTERN JUMNA CANAL	11	Acres.	Acres.	Acres,	 	Actes	Acres.	Aares.	
1 2		***		185	4-1	•••	•••	128	•••	
3		***	::	- 3	100		***	60 8	***	:::
4. 5		***		92		•••		173	•••	•••
6.		700				***	***	57	141	•••
7.	High wind	, ee	***	143		***				
8	Flooding (a) by beavy rain (b) from canal	***	***	193	***	***	***	35	***	•••
9,	Ruta	•••	•••	•••		***	***	1		***
10. 11.		***	***	15,313	***		***	8,101	***	***
12,	Rad germination or cultivation	•••		7,899	•••			803		•••
13. 14.	, Had soil Ligh land	***			***		***		300	
15,		.,.	"" '	47			•••,	- 21	:::	
	Total	***	826,010	(4) 23,103	349,172	6.62	307,576	(a) 4,481	871,360	1.21
	SIRIIIND CANAL (IMPERIAL	ū).								~
1. 2.	Wrong assessment	***	•••		***	***		1		•••
3,		***	***	***	***	***	:::	***	,,,,	
4.	Short supply	***	***	CO	***			1,816] :::	
5. 6.		***	***	7	***	***	""	1	•••	""
7.	High wind	***	***	,,,	***	***	***	" 4	:	***
8,	Flooding {(a) by heavy rain {(b) from caust	***	***	393	***		•••	8		••• .
9,	Rate	***	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \				i :::	8 20		
10. 11.	Loousts — Other insects and blight	***	•••	233 1,143	***				***	••• ,
12.	Bad germination or cultivation	***	***	154	***		***	809	***	***
13. 14.	Bad soil High land	•••	***	***	***	•••	**		***	***
15,	Bliscellaneous	***	***	G\$6	***	:::	•••	***407		***
	Total	•••	803,866	2,614	306,510	0.80	578,575	2790	691,365	0.48
	UPPER BARI DOAB CANAL	,					1			
1.	Wrong assessment	4**		10	***	•••		18	104	****
2. 3.	Escape ierlgatiau Under Tenancy Bules	***	***	401	***	***			***	
4.	Short supply	•••	•••	830	***	***		2,119	•••	***
5. 6.		***	*** .	29	***	***	***	52	•••	••• .
7,	High wind	***	•••		•••	***	***	152	***	177
В	Placeding (a) by heavy rain (b) from causal	***	•••			***	•••	17	•••	•••
9.	Rata		***		***		***	1		***
10. 11.	Locusts Other insects and blight	•••	***	16,243	***		•••		•••	***
11. 12.	Bad germination or cultivation	•••	***	18		711	***	214		***
13.	ff(-1, 1, -3	***	*** '		***	•••	•••	2		••• ,
14. 15.	High land	***	***	487	::.	***		314	***	•••
	Total	 '	507,272	17,616	524,888	8 35	537,243	2,919	540,161	0.54
_	LOWER BART DOAB CANAL	4.								
1. 2.	43 . 7 1 1	***	•••		***	***			***	***
3.	Under Tanancy Rules		100	19,814		***	***	86,435	***	*** ,
4. 5.	Ehort supply	•••	***	4,959			•••	790		***
₿.	Hall				· ·	***		8]		***
7.	High wind	- A	***	1	••• }			::"		***
8.	I mount (b) from caust	- ::-	*** '	\	***	*** 1		"101		
9,	1,100		••• '	167	, 	,	4 1	2		* ***
Ιυ. :1.	Other Insects and hlight	***		1610		***	***	270	•••	***
比,	Had germination or sultivution	***	•••	6,764	, ***			6,973	***	***
3.	High land	·		22,474 250	** ;		•••	12,239	·	•••
5.	Miscanailanaul			,10,658		***	***	1,410 7,438		***
	Tatal		259,494	66,109	325,593	. 20-3	286,708	85,708	359,411	18 £5
	. (a) Detail of ures remitted-	•					***			
							Kharif.	Rabi.		
. ·	. In the four Divisions	•••	•••	` 	***	***	22,882	4,250		
. •	In the four Divisious In Patialu State In Jind State	***	010 p10 449	410 410	***	844 804 444		4,250 284		
. ·	In the four Divisious In Patialu State	•••	,	***	***	401	22,892 284	4,250		

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1918-19—continued.

-	•	Кпдигг, 1018.					l'Art, 1015-10.			
	Cates or nemission.		tra avuel.	Art remiters.	Total era lecined.	Percelage emilial.	Arra arreval	Ars welled.	Tuly main's dal.	Peteralnes mall'nd.
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_	ANAL MELLIN CANAL		100.0	tura	Acres.		A84.4		Acres	
1,	Water resemble	•••	Acres.	Acres.	WEITH,			Arzes,	1 100	
2. II.	Recape irrigation Und a Perancy Rules	***	•••	***		***			1 1/2	•••
4,	the tangely an	••	***	""](14		-:		42	1	į
G. C.	Hail	***		44-	•••	•••			•••	{
7.	High rial	•••		***			- ::			-:
ß,	Harding fieldy leave tale			***		bad	•••	-	***	
Đ.	. Citarenena	***	1	62			***	122	1 and	***
16.	Lornets					1		:::		
37.	Other process of the bight	•-•		3,000		I		! : 1	,	•
12.	lind proporation executivalists.	**		500 510	=	! <u></u>		4.?	114	1 ***
14.	High hed	***			***				t	j
16.	Property real real real	***		***	114	•••	•••	147		
17.	Des Pulty		-	-	***		***			3-14 3-14
	Telal				P4. '2	<u></u>	15,577		151,747	
	16:4(***	213,19	*,***				free	121,11	0.15
	TOALE CHEAVE CYNAI"							1 1	ţ	,
1.	Wring sessioned	*10	•••		***	100	***	•••	~	
3	Under anancy Bules	***		775	***		₩1	"" 14		***
4. 5.	Plat m m	•••	P1 1	12.	4**	,	441		***	,
6,	Trees on on	***		\$41	***		***	**	. ***	/ « » *-)
7.	High wirl	•••		***	***		***	••	ŧ ,,	
E.	Flording (1) fr loary ta'n	***	••• [944	51¢		.,,	272	A4+	***
17,	lints	207	***	21	-		1,,,		920-	
10.	leers Or er have to a lel'abl	***	***	362	044		bif	444	1 **	***
31. 32.	Del gemitatim er en'limita	***	***	2,415 727	•••	11.1 PE.1	91) 946	1,8 7	hi	
13.	I'd en	•••		· 614	619	•••	***	1,12%	***	, m.,
34. 15.	Mighted	944	***	1,570	***		_	12 1.1) · · ·	
						079		212	1,019,603	
	Ti 'al	•••	783,102	ב.י.ז	1,1,141	· (7)	1,22,25.4	2,	An ell, r .	¥25
_	PPPER CHENAB CANAL.									
1. 2	Weng parameter -	***		•••		:	6···	1	; ;::	***
ð.	Under Terarry links	***		***	•••	•••			-	4.0
4.	Siret supply	•••		Sud	~	•••	•	[3	_	***
G.	Pret	***	*** ***	- 71	501	===				• • • • • • • • • • • • • • • • • • • •
7.	High wit I		***	444	***					
F.	Plobling {(a) ly l sty rain {(f) from cand	***	***		440 617			} : "":	· · · ·	•••
ე.	Plats on pag	***	***	1	474				1 100	***
10.	Lorgote Otte- Insicis and EVpl t	811		7.7	***	-:	•••	1.1	,	• •••
12.	Bal germination or cultivalien	***		2,417 1,618	410		***	42.5	,	···
13.	RAI foll	•••	•••	143	1		744	615	940	•••
14. 18,	Hip land	100		3,121	•••	=	•	3,273	- w	•
1C.	Cetton remission	100	:::	434		•,,,	•	***		
	Total	100	197,197	A407	271,731	4:	219,471	2,000	171 252	1/2
					·		·		·	
1.	Wrong assessment				400		***	414		***
2.	Racape irrigation	***	***	g0 . en.	***		•••	***	9-1	***
3. 4.	Under Tenancy Bales Short supply	841	<i>**</i>	1,00	101 410	***	***	1,945 85		419
T.	Hall see	***	***	11	***	***	111	67	#11	•••
g.	Fruit	•••			***		•••	***	***	***
7.	High wind	444		3	140		•••	100		#14 #14
В.	Proming ((b) from canal	431	1		310		949	700	•	***
p. 10.	Rais	***	•••	200	***	*** Per	630 pa 1	440	644 671	***
)1.	Other insects and blight	•••	***	8,772	***		***	70		H.
12.	Had germination or cultivation	•••	t en	3,555	-	***	***	201 0		
23. 14.	Hed soll	***		255	***	•••	94 94		, 614 , 944	***
16.	Miscellancous ***	•••		185			1**	512		4++
	Total	1	242,753	8,045	£51,601	3:56	624,287	1,677	898,898	191
-	10:01		444, 011	chads.						

17 . STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' BATES WERE REMITTED DURING THE YEAR 1918-19—continued.

		KHANIY, 1918.				Radr, 1918-19.				
Cause or newission.		Area assessed.	Area romitted,	Total area irrigated.	Percentige remitted,	Arcs aspessed.	Ares remitted,	Total area irrigated.	Percentage remitted,	
1	·	2~	3	4	g -	6	7	8	9	
UPPER SUTLIJ INUNDA CANALS.	TION	Acres.	Acres,	Acres	•	Acres.	Acres.	Acres.		
1. Wroog necessment 2. Pecapo irrigation 3. Under Tenancy Rulos 4. Short supply 6. Frest 7. High wind 8. Ticoding { (a) by Lany rain 9. Rais 10. Locusts 11. Other insects and blight 12. Bad germination or cultivati 13. Bad soil 14. High land 15. Miscellaneous	 !		9,536 				 		000 000 000 000 000 000 000 000 000 00	
Total	•••	13G,253	14,902	181,155	9.86	107,844	<u> </u>	107,841		
SIDHNAI CANALS. 1. Wrong arsessment 2. Recapo terigation 3. Under Tenancy Roles 4. Short supply 5. Hail 6. Frost 7. High wind 8. Flooding (2) from canal (3) from rivor 9. Rats 10. Locusts 11. Other insects and blight 12. Bad germination cr cultivati 18. End soil 19. Muscellaneous 10. Muscellaneous	100 100 100 100 100 100 100 100 100 100	**************************************	18,787				3,559 4, 27 10 5,893		100 101 101 101 101 101 101 101 101 101	
Toinl		95,672	25,640	121,212	21.15	98,231	9,954	108 185	9:21	
INDUS INUNDATION CA 1. Wrong assessmout 2. Escape irrigation 3. Under Tononcy Rules 4. Short sopply 5. Hall 6. Frost 7. High wind 8. Fleeding (3) hilt tortent (4) from river 9. Rats 10. Unquits 11. Other invects and hight 12. Bad germination or cultivation 13. High land 14. High land 15. Scans water 16. Scans water 17. Micoliancous	000 000 000 000 000 000 000 000 000 00		42,281				5,949			
Total	•••	/ 74,702	16,952	121,141	£8:2G.	50,004	9,919	59,958	16.60	

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1918-19-continued.

_		•		1	Knar	ir, 1018.	<u></u>		Itabi,	1019-19.	
	CAUPE OF BYMI	elox.		Ars weed.	dres nmilled,	Total area in ighted.	Pertentuge remitted.	Area assessed.	Met resilted.	Tetal wer lengated.	Perceatage remiffed.
	. 1			3	8	4	E.	6	7	8	9
•	CHENAB INUNDATIO	on Canat	,s.	Artis.	Acres	Acres.		Artes.	Acres.	Acres.	
1.22 da n. d. 7. 8. 9.10.112.124.14.14.14.14.14.14.14.14.14.14.14.14.14	Beage brigation Under Tenancy Bules Short supply Hall Free! (1) by rain Fleeding (2) from rai Rata Lector'. Other insects and bligh Pad permit stein or cul Bad sell High lat J	nal er 	000 000 000 000 000 000 000 000 000 00	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32,814 32,814 31,105	0 014 015 016 017 017 017 018 018 018 018 018 018 018 018 018 018		400 400 400 400 400 400 400 400 400 400	2,294 		### ### #### #########################
	Tes)કો '		87,879	23,705	78,447	31 25	45,748	4,717-	10,117	£ 44
	LOWER SUTLEJ INV CANALE.	SPATION							***************************************		
I. 7. 7. 4. 5. 6. 7. 9. 0. 11. 12. 14. 15.	Farge intention Under Tenancy Rules Stort supply Hall Proof High wind Locding 4 to by beary Rate Locants Other increase, 1 Pipli Red prin institutor or cult Red will High kind	•••	401 401 401 401 401 401 401 401 401 401	410 441 441 441 441 441 441 441	Esta Esta	 	### ### ### ### ### ### ### ### ### ##		Daga Daga Daga Daga	10.	### ### ### ### ### ### #### #### #### ####
	T: :	fe		79/45	#7,57 <i>6</i>	65,643	: 5 %	:2773	7,813	25.032	7:5
	MUZAPZARGARH INC CANALS.	ortage:									
7.3.4.5.6.7. 8. 9.0.11.12.	Ecape un'est on Under Terrey Ind. Linder Terrey Ind. Linder Terrey Ind. Linder Ind. Linder Ind. Linder Ind. Linder Ind. Linder Ind. City in sels and Highd Ted pern irriting or call. Linder Ind. Linder In	rain	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		14211 1011 1012 1013 1014 1017				6,942 102 102 103 103 103 103 103 103 103 103 103 103		
	Tel	i.		100,640	21,160	121.72)	17-1	172,600	19,521	180,520	77.2

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1918-19—concluded.

- ,	<u> </u>				Γ.			·
	Ì	Knabi	r, 1918.			KABI, 1	1918-19.	<u> </u>
CAUSE OF REMISSION.	Arca assossed.	Area remitted.	Total area irrigated.	Persentags remitted.	Area assessed.	Aren remitted.	Total area irrigated,	! Percentago remitted.
1	2	3	4		8	7	8	9
SHAHPUR IMPERIAL CANALS.	Acres.	Acres.	Acres.	Mr.	Acres	Acres.	Acres.	
1. Wrang assessment 2. Escapo Irrigation 3. Under Tenanoy Rules 4. Short supply 5. Hnil 6. Frost 7. High wlnd 8. Flooding {(a) by heavy rain } 9. Rats 10. Lacasts 11. Other insects and blight 12. Bad germination or cultivation 13. Bad soil 14. High land 15. Miscellaneous					 	1,140		
· Total	4,015	1,810	5,825	81.07	7,957	2,945	10,902	27-01
GHAGGAR CANALS.								
1. Wrong nesessment		5			100 100 100 100 100 100 100 100 100 100	 515 580 		**** *** *** *** *** *** *** *** *** *
Tatal	1,992	(A) 75	2,070	3.77	9,905	(B) 845	10,750	7.86
SHAHPUR PROVINCIAL CANALS. 1. Wrong assessment	9,876	**************************************	10.229	. 6-34	2,645	190 119 	2,954	10-5
British			,			(A)	(B)	
Bikanor	****			Total	***	26 50 78	830 816 846	

II II

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12	Por cuits of alla- Lange.	tt	ä	2	8581	1466	1200	aren — iun	Hosepp 7
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rt 121%-12.]r-} see;"		ž	2,18,741	** · · · · · · · · · · · · · · · · · ·			1,41,51,51	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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Varen ak	'elavere	-	i i	;	::.	1.2		7,::3	* ******
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III E.

STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED IN THE PUNJAB DURING THE YEAR 1918-19.

STATEMENT OF QUANTITY AND VALUE OF CROPS

		Name of (Czor	P		Can Can	a jenaje A	Fighter Hase		(Name)	Pritt Pritt Pritt	liptus M Cat	ert Doen
l'aglish.	,	Verratal:	àr.	Beleatifs.		de served to	Feigur fries.	Aug privated to	Ent1.02 yelps.	No. 6 act. real to	f the strikesise,	astrinites	Estant when
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Wheat	_	fishna		Egilicam eastrasa		Arre.	114. 1,82,54,672	Atten	3 2 2 27 Mag	A-44.	{	Arger. 231,571	{ 1 1. 69 ** #
Rice Plate Plate Plate Plate Place Place Place	11:11:	Jan Jhong Itabit Jani Hitti	1:0:3	Hertins voleste Organista Venning Avera estlea	1111	20 114 20 124 20 20 21 2	10,71,717 1,07,411 1,11,471	1 1,*11 1,*15 1,*15 1 1,1	\$ 656 C 1 (6.5) 4.5 2.8, 67, 10.64	19,000 21,000 21,000 21,000	12.17.00 1.16.215 21.00.00 21.00.00 4.00.00 7.00.00	9 611 90 3 4 9 412 4 19 17 0 24	10 to
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Gran Millet Fighet Fillet Italian Millet Gran Levill Feax Millet Gran Hillet Gran Millet Gran	1 1 1 11:	Annan Halia Kanyoti Manan Kanyoti Manan Maran Hawan Halia Hasia Masa Halia Masa Halia Masa Halia Halia Masa Halia Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha Ha		Singhone pulpose Internal and plents inter a list a 'the list or read and Internal or restrict Internal or Itematical It	I TIES TEREFF	2,976 6,871 10 2,775 2,779 6,511 10,511 11,511 11,511 11,511 11,511	319	20 mm	11.17.17 1.18.17.17 1.18.17.17 1.18.17.17.17.17.17.17.17.17.17.17.17.17.17.		18, Top 4	To the second se	
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\$1140116272	140	tienijaza ***	-		-	=	=	-			1	1	-
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Orchards Chilles Milina Carrets Cress intons intons Water-mits Water-mits Patalons Patalons Patalons Legitates Mitreflane or		Monk Elseters Highe His em Par Salpam Salpam Sanekira Alu Tast sti Lebere		Caprimm space of Composition of the Paris counts and the Paris country of the Paris country o	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	171 171 171 171 171 171 171 170 170 170	11,000 11,000 11,000 11,000 11,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000	91 2500 4 7 25 7 264 7 264 7 264	Bin Symysh So Tight Figur Lifeign Thesp	11 12 14 25	250,500 250,500 250,500 250,500 250,500 250,500	2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	1
Lecerce Grass		Live O'	٠., خ	Stedicago entira	-	יננ	11,440		997			. #1	15.
Grass Millets, etc. Euganara		Gran Gran Charts Mains Ganna		Fa-charem edifoaren.	-	છે. ફેર્ડ લ્વા સ્વામ	23'12' 23'12' 2'02' 2'03'	91,*4 127,00	\$ 64.6.4 45.67.0.4	10(10) 10(10)	21,00,10	111.05	37,72
Mircellaneous	bes	Methen Methen	1 1	Total			30,7es	E,472		છે. કુલ્ફુ	15,521 15	673 1,072,151	15,
Fallows		_		10:31	-	615,843	1437.3712	10,775	1.57,11,45	831,434	7,51,04577	7/07:,191	1,00,00
Fingle watering Plantations Misconlaneous Waste of water Palayer	131111			644 644 644 644 1 1		15,417 69 7,014 3,002 4,045	1111	10,63	11:11:	6,631	11111	1,633 1,633	
				GRAVE TOTAL	- 1		4,12,62,157			E34,277		1,014,515	

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STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED

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IN THE PUNJAB DURING THE YEAR 1918-19—concluded.

galegle Rezig)	(Janars (ER)	Tower form	BALS.	CINA CINA CINA		MCHAPPAROLN TION CA	avse' II Inerdt-	SHAUPUS (PR INCREATION	L CTATES. ULINGIVE)		
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Labore	1,751,900	1,010,256)	Upper Chenab Canal	17,382	4,122	1,283	1,763	3,138	2,426	1,440	2,764	98.8	88.88
				Total	1,172,479	292,063	322,245	326,355	0.18,000	870,299	439,5ie	809,617		
Montpomere	2.869.010	2,510,530	1.062,473	Upper Satisf luundation Canals Hajiwah Canal	11.0,710	235,928	130,317	91,403	221,720	168,701	1,233	363,943 1,373	4.80	23.07
			~	Upper Bari Doab Canal		correct o	02,60	o Tologo	arofoot.	000417	1,233	1,233		
	(Total	1,640,694	850.337	364,684	843,695	708,379	378,319	440,085	822,604	:	
7. 7.		100 e	683 700 1	Sidbnai Canal Chenab Inandation Casale	360,313	150,000 200,000	76,487	109,185	120,629	131,207 97,444	187,235	229,043	20 9 4 17 23 17 23	18.85
	on Ento			Hajiwah Canal Lower Bari Dosb Canal		300,203	4,655	11,609	16,351.	17,185	85,210	161,678	4.64	1876
	· .			Total	2,050,936	202,000	333,816	349,716	733,561	466,761	608,219	1,072,973		
Maraffargarh	3,568,914	3,097,792	743,234	Mazaffargarh Inundation Canals	674,932	350,060	121,729	186,773	308,502	160,628	224,379	384,907	4.15	19-54
Dorn Obari Khan	8,481,025	2,513,403	1,215,939	Indus Inandation Canals	422,923	305,780	121,144	59,953	181,097	110,013	64,171	205,213	2.23	. 11.88
Gritanwala	3,491,986	2,221,822	1,646,801	Lower Chenab Canal	713,793 1,228,101	403,757	145,860	105,016	000,253 245,488	108,103	253,459	454,863 255,735	11:15	32-09
			:	Total	1,911,953	938,300	331,067	626,174	867,241	313,103	400,504	749,607	:	:
Lyallpur	3,122,382	1,913,446	1,469,211 {	Lower Chonab Canal	1,468,124	1,039,272	509,341 17,371	1,010,653	1,619,993 37,505	461,236	1,055,158	1,516,394	6.67 9 80	25-087 33-92
•				Total	1,563,417	1,150,713	526,712	1,030,786	1,557,498	483,018	1,009,656	1,552,574	:	<i>i</i>
Jhang	2,171,726	1,953,078	\$270,848	Lower Chenab Canal. Mozaffargarh Investation Canals Lower Jhelum Canal	393,638	293,163	104,006 10 40,199	193,200	296,206 61 118,034	99,649 20 38,063	205 227 149 83,687	*305,869 168 121,659	7.63	19 99
				Total	723,629	358,039	141,215	270,088	414,801	187,734	289,903	427,686	:	, (
Stahpar	8,072,388	2,315,272	1,328,008	Lower Thelam Caual Shahpar (Imperial) Canals Shahpar (Prorncial) Canals Uppar Ibelum Canal	820,180 62,054 53,255 1,860	501,642 42,000 24,170 833	206,883	440,263 10,502 2,954 068	647,135 16,727 18,183 1,690	189,829 17,648 14,988 139	24,985 24,985 10,097 778	033,835 42,633 25,085 917	7.68 9.00 9.00	25.58 26.48 . 26.48
	,			Total	938,239	508,550	.223,673	455,003	878,735	222,603	478,587	701,470		į
Gujrat	1,457,410	1,199,966	918,723	Lower Jhelnm Canal	18,647 562,146	13,603	4,620 94,125	7,807 150,794	12,327	3,982 67,089	109,020	10,986 176,089	16.67	37-86
	•			Total	680,793	328,405	98,035	168,601	267,248	71,061	116,024	187,075		
Sialkot	1,260,606	1,136,760	918,184	Upper Chenab Canal	191,270	63,183	87,171	15,503	62,979	44,583	4,663	40,248	16.91	50:34
	1		,	GRAND TOTAL	17,233,340	8,465,685	3,778,620	6,237,363	0,015,984	3,797,561	6,268,350	100'800'6		
		100		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				malle trainets	A P he the We	tive States Tr	anchos of the	Beatches of the Birhind Canal.		ï

(a) Columns 6 and 7 exclude the "culturable area commanded" and "area at present proposed to be annually irrigated " by the Native States Branches of the Sirkind Canal.

(b) Inches 25,731 alite at 10 and 1

I F.
STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE
PUNJAB DURING THE YEAR 1018-10.

			RAST DE	n Acum.	
Anthority.	Class-	Nature of crops,	Now.	<i>5.8</i> 8.	Per.
canno an of the second		Western Jumna Canal including sirea branch. Occupals Bass.	Br. A. P.	Ra, A. P.	
Irrigation Branch Notifi- cation No. 097-R. L.,	}	Sugarerea see as as	to 0 ot	600	l
dated Sûth June 1916.		ther and metricular and the second poppy, drups, as per falles, spices and medium.	5 5 0		farle and orderly per laffycant the rest per emp.
	131-Y	Wheat	800	340	Crp.
	11,	Cetter, "" ne, dies, a limita and all and ampa- except wheat, place, in semp, soull, malma and troolies.	400	2 4 ()	D.
	٧'	All Facilities, part to otherwise aperificity	300	1.12 b	j 31·,
	v1	Gram, sosant, emft, territo, a strata and qualitation	2 5 0	1 4 6	Pe,
	A.1)	Corps for an entite to orde the appeal of enough this plant to the entit there is by a capability of each to each to save the entit the entit to the	}: 4 0	n 12 6	Cn p Watering,
į	ini	\$\$\$\$\$ \$\$\$^\$	i	1	
	•	Parany and the effect riege in Alarif saisening	1 4 0	0 72 11]
		The crewet of the least large of the	3 4 0	o an o	D.
		Per two crees to batter of in galling and and and a	2 8 0	181	\$>-,
		LOWER CHAUTANG NALA CANAL			
		Overring Reer.	!	i i	1
Irrigation Pracels Netif.	1	Paratare, efer at I water in ta	4 = 0	2 12 0	i Cra
cries No. 1031-1., dated 27th April 1930.	3V	Carro, Indignated males	= 40	1 3.3 6	r Fe
γ ;,	N'	One Marifer of the marie	1 12 6	1125	10A
··	VII	Aprelations will nate nates before yt ugt 'ng	1 = 0	012 0	Tip
	1	SIEHIND CANAL	,		
•		Zeni I.			
	·	All to Indicated by the Polish Posselus of the bushed Court with the exception of those as and unthe Local or Tabil of the Igence see Differen			e .
Irrigation limach Netifica-	1	Sugarrane	12 0 0	600	Cop.
tion No. 273-R. I., date1 21st December 1903.	11	llice, credunic, municos, poppy, in lice, the showed and spices, materiards, malan, no rat, beginality, except turnips.	540	210 0	tabligates the state par tabligates the state par trops
•	111	Cotton, chilles, incline, thereo, flore, harley, althouses, terms, and ji, all production arguments that and an inclinet a probe to	100	200	Cro;
	11	listes, for e. class, woth, one p. mach. quar. chira, waste, trans, temps, p. 11, es initiated and raid folder ary a net specific k.		1 10 0	Do.
Irrigation Brauch Notifi- tion No. 625-R. i., date. 12th May 1013.		Siepte waterlege faster, plosifying a to followed by a caughtingsfel erep in the same or rest largest. Also crops go an outiletter dant can province crop.	1 5 0	1	(l'ach matering. Crop.
	1 37	Special rates which may be made applicable to channels selected by the Local Government— A simple watering before pleughing followed by a rabi crop.		1 2 0	1

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-10—continued.

			RAT	T P	er Acre.	
Authority.	Olnes.	Nature of erops.	Flow		IMC.	Per
		- SIRHIND CANAL—CONCLUDED.	Re. A.	P.	Rs. A. P.	
		Zone II.			- 4	
,		All lands irrigated by the British Bennehes of the Sirhind Dansl in the Fazilka Tabsil of the Ferozeporo District.				. , . ,
Irrigotion Branch Notifien. tion No. 279-R. I., dated	٠,	Sugareano	10 0	0	600	Crop.
21st December 1904.	II	Rico, orchards, gardens, poppy, ludigo, dyes, drags and spices, water-auts, maize, wheat, regetables (except tarnlps).	Б O	0	280	Orollards and gardeos pe half-year; the rest po erop.
	Ш	Cotton, chillies, welons, tebacco, fibres, barlay, oil-seeds, berra, senji, all non-fadder erops in kharif and rahi not specified.	3 12	0	1 14 0	Crop.
	1 V	llajra, jawar, chari, moth, mung, mash, guar, chima, masur, gram, turnips, peas, and all kharif and vabi fodder crops not specified.	3 0	0	180	De.
Jergration Branch Notifics tion No. 624-R. L., dated 12th May 1913.	ŗ	Single materiar before ploughing not tollowed by a canal-irrigated crop in the same or next harvest,	1 8	•		(Each watering.
		Also crops grown on the " wadh " of a previous crap.		U	0 12 0	Crop,
~		*****				
,		All lands (trigated by other than the British Branches of the Sirkind Canal,				
Irrigation Branch Notifica.	. 1	Sugarcane, rice, water-unts	7 8	0	! 500	Crop.
27th November 1883.	n	Gardens, orchards, tobreso, poppy, vegetables, indigo, mairo.	4 8	0	300	Do.
	111	Cotton, fibrea, ull dyes (except fudigo), ull rabi	3 12	0	280	Do.
	IV	All kharff crops not appoined above and rabl crops of gram and mesur.	2 10	0	1 12 0	Do.
Irrigation Brauch Notifica. tion No. 624-R. I., dated 12th May 1918.	v	Single watering before ploughing not followed by a canal-irrigated crop in the same or next barrest.	0 12	0	080	Each wotering.
	VI	Special rate which may be made applicable to channels selected by the Local Government—		1	}	
	•	A slugia watering before ploughing for rabi	`1 8	0	100	Crop.
-		· _ ·				
		- upper bari doab canal.				
		Occuribn's Rate.			-	_
Irrigalion Branch Notifica- tlon No. 2621-I., dated	I	Sugarcano and water-nuts	7 1	0	386	Crop.
10th June 1891.	11.	Rico	6 0	10	.305	Do.
•	_ III	Orahards and gardens, tolmeco, puppy and other drugs, vegetables, melons.	4 B	8	2 4 4	Orchards and gordens per holf-year; the rest pe
·]	. 17	All dyes, fibres, and offseeds, all rabl crops axcept gram and masur.	8 13	6	1 14 8	l crop.
	v	All kharif crops not specified above, tabl crops of gram and maser, all fodder orops,	2 13	5	1 6 23	Do.

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1018-19-CONTINUED.

					en ache.	
Authority.	Class.		Nature of crops.	Flow.	TAG.	Per
		a	NARL DOAR CANAL—construes.	Re. A. T.	Rs. A. P.	
rigation Branch Notifes- tion No. 02-R, L, dated 21st May 1018.	VI	forcial rai	es which must be inside applicable to clauncieselected by the Local Gereza-	204	102	Ccop.
		Divisier.	Nament channot			Wertenstein of the control of
		1.08	Hain Lies, Baiampur Peoler, Fari harne Peoler, Fujangur Pist Cranet, Faren Distributary, Unique Distributary, D'amanan Navigation Channel inselving Amand Distributary, Finatola Distributary, Nanumental Mistributary, Nanumental Mistributary, Main Lies, Sipper, Paleball is stributary, Fatel margal Distributary, Ravia Distributary, Ravia Distributary, Rot Harne Chanh Distributary, Kunjan Distributary,			
		Secon1 }	Kota Distributary. Tharlenal Pistributary. Korne Branch. Japainia Pistributary. Talawan Distributary. Sarrech Distributary. Subsana Branch.			
			Rearki Distributory. Attent Distributory. Vadala Distributory. Diardin Distributory. Gageorbhana Distributory. Blindar Distributory.			

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19—continued.

•			RAT	e P	er acre.	
Anthority.	Class.	Nature of crops.	Flow		Lift.	Per :
*	***************************************	UPPER BARI DOAB CANAL—concluded,	Ra. A.	F.	Rs. A. T.	
Irrigation Brauch Notification No. 628-74. I., dated 12th May 1913.	VII	A single watering before ploughing not followed by a canal-irrigated crop in the same or next harvest. Crops grown on the "wadh" of a previous crop	}1 0	2	081	Each watering.
Irrigation Branch Nothica- tions No.1849-R.I., daled 28th March 1907, No. 698-R. I., dated 11th December 1907, and No. 030-R. I., dated 2nd July		Villago plantations on areas to which the pro- visions of Act III of 1803 have been extended and District Roard plantations within the Chunian Colony— For any number of unteriogs in the kharif				Half-year.
1009.		Por one watering in rabi serson For two or more realerings in rabi action	1 3	4	0 9 8 0 9 8	Do.
	•	IOWER BARI DOAR CANAL. Occupier's Rate.				
religation Branch Notifien- tion No. 517-R. 1., dated 23rd April 1913.	1	Cane nod water-nuts	9 0	0	4 8 0	Стор.
	11	Rico `	7 8	٥	B 12 0	Do.
	111	Orchards, gardens, lobacco, poppy, indigo, drugs, verptables, uctous and wheat.	50	٥	280	Orchards and gardens pe half-year; rest per crop
	IV	Cotton, Gires, dyes (other than indiga), othereds and all rabi crops, except wheal, gram, masur, senji, mains and turnips.	j 0	0	200	Стор.
	٣	All kharif crops not otherwise specified	зò	0	1 6 0	Do.
,	vi	 (a) Gram, masur, scall, turnips and malua (b) Crops grawn on the "wadh" of a previous crop. (c) Single watering before ploughing for rabifollowed by a rabi crop to be applicable only to channels selected by the Local Coronnment. 	2-4	0	120	(a) Crop, (b) and (e) nere
	VII	Grass, villare and District Board plantations		1		
		For any number of waterings in kharif scason,	1 6		0 10 0	Half-year,
	1	For one watering in radi ecuson	140		0 10 0	Do.
	VIII	For two or more waterings in rable staron (a) Single watering before ploughing not followed by a count-irrigated crop in the same or next harvest.	281		0 4 0	Do
	- ',	(b) Heinp (ann) and indigo whileh has been ploughed in as green manure before the 15th September.	}			,

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19—continued.

			HATE P	er acre.	
Aulhorlty.	Class.	Naturn of crops.	Flow.	Lift,	Per .
		and regulation amount with the first around the Architecture and another statement and another statement and a	He. a. P.	lia. A. P.	
		UPPER CHENAB CANAL			
		Occupints Hays			
Irrigation Brench Notifica-	1	Care and water-nuls	poo	4 8 0	Cenj.
8th Annut 1912.	11	Rice	7 % 0	3 12 6	31.
	111	Orchards, prodons, take, e.s., p. pps, in time, despes, aspetable s, residence in wheat.	500	2 4 6	भिनोत्तर्भनेत का वे हजरोदन व पुरस् विभिन्ने राज्य व स्थापित स्वयंत्र,
	17	Colton, flore, deco (ethic ship in living), office to not all raid en pa, a copy where, grows, y correctly nation and termine	ង ស ស	200	Crap
	v	All Distill coops for all or is specifed	apr	1 ~ 0	p.
	71	(1) Aram, tokens, seeign from propolar besting the			
		(b) Cooper on carres with the post re	1	<u>[</u>	
Irripality Reanch Netifica- tion. No. 0245-R.I., dated 20th September 1918.		(c) his of a state is a latine of mother for mail follows like a salt up to be at like at like and to come the artists like the late of the contract of the contract of the like at li		: # n	ia) Cong. (1) and (e) erre.
		On Halm Iner, Upper.			
		NoF' or Brone'			
		Napa 1' spel	n		
		On Mary Live I ver			
		Istrat ti			
	Į	६३ हर के प्रकृति	} }		
	•	fixe ke	•		
		Steen mala)	}	
		do"anecala.			
1		Klarjar.			
		Nilar na's.			
		Utjen.			
		Klath,			1
		Melhe,			; ;
4.0	h+	Marquiem Mices of the basedonla Distributory.			
	VII	Grass, village and District Board plantations—			
		For any number of waterless in the klarif	110	0 10 0	Half-year.
		For exemptering in eatiment is	1 4 0	0 10 0	i De.
		For two or more waterings in rable season	280	1 4 0) no
Irrigation Branch Netifica- tion No. 55-li. I., dated 18th January 1913.	VIII	(a) birgio matering before plurghing self fellows: 'by a cut al-drigged crop in the same of the rest hardat.	o a o) Acre.
		(b) Herr (san) and ir liga which has been ploughed as green manure before the 15th September.	u] [

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1018-19—continued.

			R	TE P	er aci	RR.] ,
· Authority.	Class.	Nature of crops.	Flo	IV.	Li	ft.	Per
		•	Rs.	A. P.	Rg.	Л. Г.	ļ
		Lower Chenab Canal.					
		Occuring's Rate.					
		Applicable to					
	•	(a) all estates in the Gujranwala District which ecre established before the 1st January 1502;					
		(b) oll estates in the Ihang District which were established lefore let January 1892, except those which were transferred from the Ifongomery to the Ihang District by Resease and Agriculture Natification No 370 of 4th May 1899; and such proprietary wells as are now or any hereafter be included within the boundaries of the Oolong maurar;					-
		(c) all estates in the Augera and Arangomero Tabils of the Montgomery District which neer established by 1st January 1894; and			 		
	•	(d) oil estates in the Multan and Labore Din- tricis which were established before 1st April 1902;					}
rrigation Branch Notifica- tion No. 017-R.I., dated	1	Sugnreano, water-nuts	8	0 0	4	4 0	Crop.
13th Juno 1903.	11	Rico	0 1	0 0	8 1	0 0	Do.
,		Orchards, gardans, tobacco, poppy, indigo, drugs, vegetables, meloos.	5	8 0	а	0 0	Orchards and gardons polali-year; the rest po
	. 14	Cetton, fibres, dyes (other than ladigo), oil-seeds, waite and all rabi corps (except gram and mater).	.4	4 0	2	0 0	Crop.
	v	All kharif crops not otherwise specified, and gram and masur.	8	0 0	11	2 0	Do.
irrigation Branch Notifica- tion No. 636-R.I., dated 12th May 1918.	VI	Single watering before ploughing not followed by a caual-irrigated crop in the same or next harvest.	} } }1 1:	2 0	1	2 0	Each watering.
		Also crops grown on tha "madh" of a provious crop.					Crop.
	VII	Single watering before plonging for rabi follow- ed by a rabi crop, to be applicable only to channels selected by the Local Government,	£	5 0	1	8 0	Aore.
rrigation Branch Notifica- tion No. 0141-R.I., dated	VIII	Gras—					
12th October 1903.		For any number of waterings in the kharif season.	1 4	\$ D	01	0 0	Half-yoar.
		, For one watering in the rabi season	1 4	0	0 1	0 0	Do
		For two or more waterings in the rabl scason	3 8	3 0	1	4 0	Do.
		Applicable to estates other than those referred to in Notification No. 017-R. I., dated 18th June 1803, abore.					
rrigation Branch Notifica-	1	Sugarcano ·	7 8	; · o	8 1	9 0	Crop.
tion No. 22-1., dated 6th January 1892.	II	Rica	6			2 0	Do.
	111	Orchards, gardons, tobacco, indigo, vegotables, poppy, dhania, zira, sunuf, molons.	5 (в О	Orohards and gardons polarle-year; the rest pe
	IV	Cotion, fibres, dyes (other than indige), oil-seeds, maize and nil rabi crops (except gram and masur).	8 12	3 0	11	\$ 0 _c	Crop.

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19-continued.

			•					•
					•	Reth pr	R ACPY.	
Authority,	Cin+s.		Νn	inre of cre	r. Pr.	Pion.	Lift.	l'er
		ron.	ea enen	AB CANA	lcortigero.	Re. A. v.	Bi s. r.	Balancean in the 40 States and a patenting of the
			Ocora ty b*c	NATE OF	entinued,			
	7"	All llas	if ereys to	ok albierni	is specified, and	280	1 4 0	Crip.
Irrigation Branch Nelisten- tom No. C36-R.1., Pated 12th May 1913.	VI	Heple w	ntering lef entitiesznick		dep not fellowed he asses or nest	1		l'arlı watering.
·	vn	Alex erop	e Kican e d	glan en ji	l'' el 16 presidus	1 4 0	0 10 0	Car.
Irrigation Branch Netifi- early as No. 0141-R L.	VIII				line allers or l tr Co rym	•		
dated 124 O leter from Na. 21341 L. drei 16th Proceeder 127, na. l.		"iv #		d Artein	gran the Marif	1 4 6	oto E	Pallyon.
No Toldi I., datel 11th Discular 1997.		Ter #	re retor .	In It A por "	ther de war	1 4 1	e in e	132.
,		Fer t	* ` (* 8: (* e	s ateritys i	light that	250	1 3 6	i ir.
		.152'6-11		6- fo- pol.	ton		,	
		Pres -	i in n.	* 10',	1 100			
		t er in sizerma	€ **€**# 8 k	Greats Tought	fa grage y			
		1 4/1	`*;•";	1 113	The search services of the ser			
		[122"1 · · ·]	\$57°234	3	jare drieta.	į		
		,,	ner -	le ne	241,15,155, 1 541,15,155, 1			
		Í	7.1-y	Total		1		
					2 17 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1			
		35 1-8	11215-5-	dent,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			Shame .	P tt z	413 42" 41", 41", 15" 6 1 4" 11" 1 50" 6 3, 5 32 7 1 120 3,			
Ixripeti a tiesnel Nelifeze Non No. 1277-di Locatisi		i citta.	I tally	Sa	Transport was a service of the servi			
26th August 1912.		jla-z	1 11.	The same	STATE BOARD			
		Pina	JAC-6 :	72.A.	Pr. Thank			
Irripation Branch Notifi- cation No. 90% 1, dated 22n1 January		Tente Greek	lydk r.	Green Trains	the total and the	-		
1913.		Pers's	Into .	Pitty	a h a re region of the control of th			(1)
Irrigation Branch Notifica- tion No. 0201-11.1, dated 21st September 1913.		Rink	C-Jrannal Diffe	.:	ll. 172 and 207, Hall Branch.			U
		Cup.17	D,tro	,	12. 17. 27. 65. 27. Sharf In. Half. Branch.			

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19-continued.

	,					R	TE	PFI	ROA S	2,	1	
Authority.	Class,	Nature of crops.			Flow.			Lift.			Per	
		Applicati	dourier's 'e to the fal	RATE-co	er relected by the	Re.	ر ۲۰ مو		Ro. A	, P.		
		Division.	District.	Settlement nesecoment eirolo.	Nos. of Chals and Branch.				-			
		Upper Gagera	Lyalipur.		87, 61, 107 and 104, Bakh Branch,							
40		Lyallpur	Ditto		165, 211, 215, 235, 24, and 241, Kakh Branch.							
Irrigation Branch Norfaca- tion No. 016-R. I., Jaced 1st June 1015.		Jhang .	Jbang		475, 175, 476, 470, 480, 481, 181, 180, 470, 473, 418, 180, 503, 501 end 500, 3tang bracch,	,		- Long				
		Berale	Lyalipur		677, 654, 541, 785, 697, 615, 618, 619, 621, 622 and 623, Burnia Brar ch.							
•, •		Lours Gareta	Ditto		321, Gurera Rench, Loner							
		Gurra.	Dillo _		Ben, Ongera Reanch, Upper.							D.
Irrigation Branch Notlica- tion No. 111-R 1., dated	IV	Cotton,	libres, dyes and all rabi	, ather that crops excep	indigo, oil-seeds	3	0	۵	1 1	2	٥	Crop.
Soth January 1912	. v	All kha gram a	rif Crops Id masur	not others	rlss specified and	2	0	۰	1	4	0	Do.
•			uppen 1	incran (CANAL.						-	
· ·				rren's Rr	te.		0			8	۱.	Crop.
Irrigation Branch Notifica- tion No. 037-R. I., dated	11	Rice	water-nuts		***	7				2	- (Do.
6th June 1916.	111	Orchards	. gardono, f	obnesa, pap	ny, indigo, drugs,	6	0	0		8	- 1	Orchards and gardons r
	17	Cofton,	les, melons Ibres, dyos rabi erops	(office than except wh	indiga), oll-aceds	4	٥.	۰	2	0	٥	half-year; rest per crop Crop.
	l } v	eraji, m	nina sad t	urnips. t otherwise		8	0	٦		8	إ	1 Do.
	· VI	1			eng malas	,			-	-	Ĭ	(a) Crop.
	4 .	(" of a provious ero	. ·						(δ) Acro.
	!	(c) Sim	ele waterin	es Inform	plaurbiar for rab	,						(c) Acre.
***		00	ly to the f	ollowlog chi	to be applicable	"		ť				
			1	III-II. of Distribu	Mochisna Khari lary.	:						-
		Main Li	ne, Upper	Distribu	amanpindi Kirri tary	1 1 2	4	0	1	2	٥	
		Jheinn	Caual,	tributary	roki Kharif Dis- Palla Kharif Dis-	11		i			1	±
			. (tributary		1}					1	
,	.]	Gnjrat Upper Canal,	Jimneli, Jielum	2-I. or Pla Distribu	lin Dosbaka Kluri iary,	1		Í	•			
		There el	annels wi	II ho open October, h	ouly between the							
	VII	Grass, vi	llago and D	latrict Boar	d planta ^t lons — n the kbarif reason		4	0	0 1	0	0	Half-year,
	-			la tald seaso		1	4	0	0 1	0	0	Do.
•	J	For tw	o or more v	ni egairoter	rabi ecesna	3	8	0	1	4	0	Do.

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS N N THE PUNJAB DURING THE YEAR 1918-19-continced.

			11	171	rn	n achi	•	
Authority,	Class.	Nature of creps.	71	low.		7.15	١.	Per
	Vill	HPPRR JHILLUM CANAL—confrings, Operism's Rann—concledel, (a) Single watering before plangling not followed	Ma.	J,	т.	11s. A	. P.	The second secon
		by a cased interaction plu the same or next invest. (8) Hemp tent and in the which have been ploughed as press y arms before the 12-th Especial co.	}o	B	o	G 4	0	Azze.
		LOWER JHTLEM TANAL						
		Occupien's Harm						
Irrigation Pranch Notifica- tion No. 07-IL, L., dated 25th May 1502.	111	Supercane, waterstude	5	4	n	3 2	0	•
		Crit m, free, dree i then timber of the only, in air and all ratheres except given and mover that extent and moves, and all extent for for powers and moves, and all expenses for for for the property for the forms.	:				()	C+ ;.
(rrips inn Franti Nellea- tion No C. 2-6, 1., dated 12th May 1913.	VI	Single matering left evaluabling, entirely with the mestable guidelet gordfreen per another with Corpopromoter the Month Month commisters of m	1	4	r	t- 10	v	Check water ep.
	VII	great uncomp ting to ware inget of on plangiting to a gold falls what to a salt energy to be egytonial and group adapted a executed by the docated versus eat.		*	c	1 4	ę.	
irigatian Iban, h Netifica- tiere No. 0121-11, a. est d Elst begitted er it v No. 710-11, it, dated itel December 19 7. a. it No. CTR. t. dated 11th December 1.07.	viii	Course, a lapse glandations in all long attending of the College. The mag analyse of materiage in the College. For the materiapin thereignes in the College. For the materiapin thereignes in the college. College mane materiage in the antide and applicate form. (1) All ellings on perform of a lagre in the Litera Talah well, seed form the Karlin Leader on Harley Distribution. (2) All ellings in the Stateme Talah, except the ellings in the Stateme form the Salvent and traces of allows included from the Salvent Frederical and appear to the College in the Salvent Frederical and and allowed before the salvent form the Salvent Frederical and and allowed before the salvent form the Salvent Frederical and and the Sargetter Talah.		4	6	0 10	0	DA.
Irrigation Brarch Not a- cations No. 469-16. 1., dated 23th March 1912, and No. 438 B. I., dated		Northero Franch Chake— Northero Franch Chake— Northero Branch Chake— Northe		r e	1 0	3 1	* (Crap.

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE THE YEAR 1918 19.

-		RATE PER AGRE.	
Anthority.	Class.	Nature of crops. Flow. Lift.	
·			
		Bs. A. P. Rs. A. P	
		LOWER JHELUM CANAL—concepted.	
		OCCUPITA'S RATE-concluded.	•
		Rico 400 200 Crop.	
	111	O chards, gardens, indigo, regeinbles, drugs and 5 0 0 2 8 0 Orchards and garden half-year; the reservoire.	s i
	IV	Wheat 8 4 0 1 10 0 Crop.	
	V	Cotton and oilseeds 3 0 0 1 8 0 Do.	
•	VI	Fibres (other than cotton), dyes (other than it dige), make and all rabi crops other than wheel, gram and mann.	
· <u>-</u>	IIV	All other kharif crops, gram, massr and all crops 2 0 0 1 0 0 Do. grawn for fodder (including turnips)	
rrigation Branch Notifica- tion No. 639 RL. datel. 1.th May 1913.	AIII -	Sirgle watering before plenghing not followed by a canal-irrigated crop in the same or next harvest.	
٠, ٠,		Crops grown on "wadh" or moisture of a pro-	
	· IX	Single watering hefore ploughing for rabi 2 8 0 1 4 0 Crop. followed by a rabi crop, to be applicable only to channels selected by the Lecal Government.	
•	, X	Grass, villingo plantitions in Colony villages and District Board piontations in the Colony—	
		For any number of waterings in the kharif 1 4 0 010 0 Half-year, season.	
•		For one watering in the rabi season 1 4 0 0 10 0 Do.	
		For two or more waterings in the rabi 2 8 0 1 4 0 Do.	
• •		UPPER SUTLEJ INUNDATION CANALS INCLUDING LOWER SOHAG AND PARA CANALS,	
,		OCCUPIENT'S RATE.	
		Lahors and Monigomery Districts,	
Irrigation Branch Notifi- ention No. 409-R. I.,	1	Rico, gardons, pepper, cano 3 B 0 1 12 0 Acre.	
dated 17th April 1918.	- ·II	Cotton, melons, til and hemp 2 12 0 1 8 0 Do.	
100	111	All other kharif crops I 12 0 0 14 D Do.	
;	IV	Grasses and failed rabl crops 0 B 0 0 4 0 Do.	
10.0	v	All other crops 1 4 0 0 10 0 Do.	
	ĺ	SIDHNAI CANALS,	
,	ļ [.]	WATER-BATE. Rate per acre.	
	l: .	Kabirwala and Multan Tahsils. Rs. A. F.	
Punjab Civil (Revenue) Deportment letter No. 269, dated 11th Decem-			
ber 1892.	11	Other khorif crops 2 6 0	
James 9	111	Other rabi crops 2 2 0	
		Nove.—"Lift" raies to be half the "flow" rates.	

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNIAB DURING YEAR 1918-19-continued.

			,	1	HATP P	en Aore.		
Authority.	Cless,	Nature of crops,			Plaw,	7,1ft.	Pcr	
		n verreite allementatives and rannons and and and and and and and and and and	<u> </u>		Re. A. P.	fig. g. f.		
	- 1	LOWER SUPLEM INUNE	ation can	ALS.				
,		Occusatia 1					1	
		Mailei Garale and Rearche Emdarrah and Branch Lodhean and Beauther.						
ention Branch Notice	1	lilee, predere and popper	***		2 4 0	1 11 0	Acre of metarol erop.	
ated 14th l'alreary 1903.	11		901	м.	1 12 0	1 8 0	Date.	
		Other Harif errps	•••	•••	1 8 0		Ditta.	
	ix	Italil eteps	***		011 0	0 10 0	Ditto.	
		Nors.—Irricalish on persu fi nt fulf est trace at the dis Constitution						
		CHENAD INVEDATI	ion canal	٠,				
		Cecrner's	Diry,					
į	1	Gallat Ballon to state	, Sil er tacen. Carata	al e-t				
rrigation Franck Notifica- tion No. 21864 , dared 9th Nevento, tota	1	Meyendine at Liegger	***	***	240	1 11 0	Acre of restant carry	
	11	Cott n. eagerment til	***	***	1 15 0	3 5 6	Desta.	
		Cater Mander product	***	b4 4	186	1 2 2	160%	
	14	Relerys	1.1		f: 21 D	0 10 0	D. 25.	
		Nour. Infinition on greek to all the control of the						
		May that, Boncome I an Mediano ed C		3				
ignijen Amerija Najišena Jen No. 01525 (1., datet)	I	Him, prodentant bellet	***	•••	2 4 0	1 11 0	Acre of scaland emp	
5th September 1960.	11	C Hern, Ki gareabe and til	***	***	1 12 (1 5 0	Pins	
	tji	Other I tull errys	144	114	1 1 8 0	1 2 6	Direct *	
	12.	Britage	***	ï.,	0 14 0	oro (Ditta,	
		Norz-terigative en grass at laif rations at the di Commissioner,						
		нулиуй с	MATL	•				
rigition Beatch Netffertion No. 266-B.A., date 11th November 1105.		In exercise of the power one (1) of the Panjeb Mir (Punjab Act III of 146 Lieutenant-Gorerner is ple all Irrigation from the following rates shall be be traigned, namely to	or Camile An 3), His Her read to direct Hajirah Cu	et, 1975, neue th that for ral the				
	1	WATER R	ATE.		1			
	1 :	Rice, paniens and repres	991	7		0 111	· 1	
	1 1	Cotion, sugureans and til	775	•	1 10	0 1 5	0.1	

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19—continued.

	. {		,]	RATE PE	1 100E.	,
Authority.	Class.	Nature of crops.		Flow.	Lift.	Per .
	•	• -		Rs. A. F.	Rs A.F.	,
		HAJIWAH CANAD—coxodi	DED.			
	,	WATER RATE—concluded				
	711	Other kharif crops	,	180	120	
	IV	Rabl crops 🙃 🙃	ā 5	0 14 0	0 10 0	
	٠	Provided that on all irrigation, with grant of hand made in the year 18: Gholam Kadir Khau, of laude, the right in which is or may heree visted—	O to the late proprietary			
-		(a) in the sons of Uncol Reserv said Chulam Kodir Khan				
	•	(b) In Minn Muhammad Klan Muhammad Afral Klan, of the said Chulam Kad their lineal descendants;	the nephews			
•		the rate per sere actually matured a kharlf or rabi shall be limited to t rates, namely:—	theflier in the ho following			
	-	Rs. A.	r. O per aere.			
		rite 🛎 ∸ o b	ر 0			[
irrigation Bronch Notifica- ting No. 200-R. I dated 15th November 1905.	π	In exercise of the power conferred by (1) of the Panjub Minor Canals Act III of 1905), the Lieutenan pleased to direct that the followin he levied on the Injudal Canal is and Montgomery Districts, for the water for purposes other than irri	Act (l'unjub Governor la grates shall the Mullan to supply of		. t.	
				. n	ale,	
		Purpose for which suppl	ied.	Rs.	A. P.	
•		Brick-making and pire wall building	ig .i.	°	8 0	100 cubio feet.
;		Laying concrete or brick or stone m	LEOUTY :	0	2 0	Ditto.
			",	10	0 0	Mile.
		Water supplied in bulk	416 41	1 2	D 0	2,500 cubic feet.
Irrigation Branch Notifica- tion No. 0235-II.I., dated 19th September 1906.	. 	Watering roadside or avenue trees	, n	°	0 0	Canal mile of 5,000 fer for kharif crop. Canal mile of 5,000 fer for rabi crop.
Irrigation Branch NotiSca- tion No. 100-R. I., dated 80th January 1912.	=	PROVISO.— Except within the lin Stations, Cantonments and Municharge shall be made for souter manufacture of bricks not such in a kiln or for plate wall build from a water-tones or lank if plied from a canal, and no levied for water supplied in proper authority to cillage tand was a far domestic purposes or.	cipalities no used for the quently burnt ng, if taken wofully supule shull be bulk, under s exclusively			

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19—configure.

·		}			- 1	MATE TY	n arer.	
Authority,	Class,		Naturé of creps.			l'lor.	lift.	Per
	The sales	Occs 12DUR 121.	NDATION rich's Rai			Re. A. P. Re. Tarrir Ot. the Rodra Caral.	1	
nilert' v. Proceh Selffen. 31 n So († 70-11.14., dated kul Oct ber 1912.	one.	Rhand Core Oft Bell Core	649 949 848	***	*	Br. A. T. 1 4 0 0 12 0	10	
	• }	His 1. Take the first of lamp to Take the office of the office o	irate in Is as in It	ni kata Bigi Kina Kinata Bigi Kina	, ₍₁		1 1	i
`		The section of the se	An inch	1963 - Jenne 1880 - William 1997 - 1991 - 1885 1987 - 1993 1987 - 1888 - 1884				Then divines a sufficient
		e the two to the second of the	e floor of the control of the contro	Property of the second of the	1391 1391 1391 1391 1391 1391 1391 1391	! !		· ·
irigation II and No. If an ilon No. Curull I., dared all. Cotolerabile.		In exemple of the profits Northern In Villa of 1872, we at the plane to the country for the late of the form the late of the l	the fire factor of the control of th	of Postonia son IV of sin Punyon to the Punyon That II of for the V to the Card's	And the second of the second o		2- T ₁	
		All emps on Heart Constitute of the	er fer greg Gregation	en Fores o'Ner I	***	č	00	Arze.
	Property of the Control of the Contr	liel kemeking and g Laying control an Metalling make Water engiliel in i	Lidol ees		y	0 10	2 0 2 0 0 0	Time to the test. Time. Side. 2.700 cm/c feet.
•		Watering redicted and state of the state of	P		 	5	0 6	Caral mile of 5,000 fc.
		For the Canal	erruu's Ra e în Siriç Todelle,	-	•3		(n	
ferigation Beauch Nelifica- tion No. 1379-1., dated 19th November 1293.		lifes	\$00 \$17	;,;; ;,;;	en 101	Re. A. r. 3 S O 2 B U	1 4 1 6	O Acres
		Grass lands	***	***	***	1 4 0	1 4	o Po.

STATEMENT SHOWING OCCUPILR'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19.—CONTINUED.

•						, B	ATI	3 2/1	er A	CR	в.	
Authority.	Cioss.	Nature of crops.			Flow.				Lif		Per.	
			VINCIAL) ANALS. TEE'S RAT		TION	Rio	Δ.	Р.	Rs	. А,	P.	,
		I	laniwoh.		į							
Settlement Roport, 1887-	400	Rico	***	444		8	8	0	1	4	0	Acre.
1894, paragraph 100.		All other crops	***	•••	***	2	8	0	1	4	0	Do.
		Grass lands	***	***		1	4	ò	1	4	0	Do.
		Co	tynwas.									
		All crops	**	•••		1	8	0	0	12	0	Acre.
		Grass lands	**			0	2	0	0	1	0	Do.
		MUZAFFARG	ARH IN	INDATIO				į				
,			anals.	_								
İ		Occur	PIER'S RA	re.								
		Ches	nad Canal	s.								
Irrigation Branch Notifica-	1	Rice, gardens and per	pper	***	•	2 1	2	0	1	8	0	Acre of matured crop,
tions No.052-R. I., dato'l o'th July 1993, and No. 100-R. I., datod 2nd Pebruary 1916.	11	Cotton, sugarcano an	d indigo	***		1	8	0	0	12	0	Ditto.
	m	Other kharif crops	***	***	}	1	2	0	0	9	0	Ditto.
	14	Rabi crops	***	***		0 1	(2	0	0	6	0	Ditto.
Irrigation Branch Notifica- tion No. 434-R. I., dated 4th May 1907.	v	Grass lands	•••	***		0	6	0	0	3	0	Ditto.
		NOTE. The rais for at the discretion of t							1			
		· ·	es Canals,									
Irrigation Branch Notifi-	1	Rice, gardons and pe	rper	-		2	0	۱۰	1	0	0	Acre of matured crop.
cations No. 052 R. I., dated 7th July 1903, and	, III	Cotton, sugarcane an		***		1	0	0	0	8	0	Ditto.
No. 100-R. I., dated 2nd February 1917.	III	Other khazif crops	٠	•••			2		0	8	0	Ditto.
	17	Rabi crops		•••				٥	0	4	0	Li to.
Irrigation Branch Notifica-	v	Grave lands		•••	\		4		_	2		Ditto.
tion No. 484-R. I., dated 4th May 1907.		Note.—The rate for	grass lan	ids to be as	sessed	Ū	•	۱	ľ	~	U	
	•	at the discretion of GHAGGAR IN	UNDATIO	ON CANAL								
,	1	•	RITISH).									
•			ied's Re	TU,								Acre matured per crop
Irrigation Branch notifi- ostion No. 348-R. I., dated 27th November	1	Sugarcate	***	***	{	_	8	- 1	•	_	0	Ditto.
dated 27th November 1903.	II	Rico and water-unts		***	•••	8	0	J	8	0	0	Ditto.
	İII	All other crops	115	***	***	2	8	۱۹	1	4	0	Diw.
		PROVISO,—Provided shall be levied in re lime being assessed	spect of	any land	for the		•					
ı		DELHI AND	GUEGAC	n work	B	, 1	Rale	, 190	er a	cre.		
		Осот	pier's Ra	TI.			70		1, 1			
Inication Bounds Watte		All crops							6 4			Acre.
Irrigation Branch Notifi- cation No. 653-I., dated	•••	G	***	***	914				8 9	-		Do.
6th April 1898.		Norv.—This schedul	e is the	same os the	 16 pud-				- 4	3		
		lished in Notifica December 1878, whi	tion No. 5	253-1 , date	d BIA		•					1

STATEMENT SHOWING OCCUPIER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1918-19-concluded.

		• .	RATE T	er achb.	
Authority.	Class. Nature of crops.		Flow.	Lift	Per
After the state of the product of the state	1	PELHI AND GUNGAGN WORKS - CONCLUDED. OCCUPIED'S HATE-concluded.	Re. 4. T.	Re. a. r.	
		FCHERULE OF RATES FOR SUPPLY OF WATER FOR PURPOSES OTHER THAN IRRIGATON.			
		WRITERY JUMPA CANAT, UPPUL BART DOLB CANAT, STRIBBUT CANAT, LOWER CREVAR CANAL, UPPUR JUSTEM CANAT, LOWER JUS- TUR CANAT, UPPUR CHENAD CANAT, OUTL HART DOLB CANAT, COPER STRIPT CANATE, LOWER SOURCE AND PARK CANATE, STRIBBAT AND STRIPTION CANATE, SUTTABLE CHENAT CANATE, PRINCE CANATE, SUTTABLE- GALL CANATE, STRIBTCH CANATE,			
Irripation Branch Noble- cations See (51-1 , date)	***	litick-makit , and personal tailting	6		ucenid-fear.
tele April 1819, 170-48 I. j entel 16th Provider 1902, 540-18 I. estel		t. Lagleg et nomine am likelik konstituon nas magi 🔐 .	b	2 u	Date (
19 I. dated 15 is July 19 I., dated 15 is July 1918, and Orio II d		Metalle and an an	רנ	e o) 1 M le,]
datel little deptember 1516.		i "Water angelled for total and a control of the co	, ,	n û	and calle feet
			(=	5 0	Cand p'in of Ecco fel,
estim No. 127-b. 1 dated 20h October 1-6	***	Waters or enablished areas a trees	1	e t	fieral miles f Edica feet.
Irrigation Praced National Nation No. 19.7-19.14, and 19th September 1911. Irrigation Praced National October 1912, and to 1924, in execution of the second national networks and the second national networks and the second national networks and the second national networks and national networks and national networks networks and national networks netwo	"	I becated militers to method the Units of Cocil stations, Companients and Uniters interior of these while to make for a stee mostly other ordered convertines in most extension, twenty one is not progress with the support them for a sector exercise took had being applied to be a constant			Property and the second

PUNJAB PROVINCE.

IRRIGATION BRANCH.

ADMINISTRATIVE ACCOUNTS

FOR THE YEAR

1918=19.

No, Irr. 15-4-

dated 1920:

Copy forwarded to

F. DUKOFF GORDON,
Accountant-General, Punjabi

Huld.i.'Am Pross, Lakere.

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MINOR WORKS AND NAVIGATION.

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Imperial.

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	Pro	insial.		•		
(8) Works for which only Re	ግኛ ድ ክሁሉ ልኅ	econita na	e kipi.			
SHARPEP CASAL! -			•			
No. 3 Revenue a comit	•••		***		101	7.2
, à Indice charges a cout		***	***	141		7.1
But Isouth & Com -		7-7	***	***	***	*,,
37 M. 19	***					
& Indire tellas greggenet			***	.71	***	4.1

ADMINISTRATIVE ACCOUNTS

No. 1.—General Abstract of Financial Results showing the Estimated Cost of Construction and the Interest on the Debt incurre t in respect

				ATED COST		CAPITAL OUTLAY INCLUSIVE OF INDIRECT					
. Name of Proje	ci.					Dur	ing 1018-lg		Toend of		
			Direct charges.	Indurect chargos.	Total.	Direct charges.	Indirect chured.	Total.	Direct charges.		
1			2	- ,-	1	5	6	7	6		
PRODUCTIVE W			Rt.	Ra,	Re	Ru.	R.	Rs.	Rs.		
Imperial								30.00	1 (0 (1)		
Western Jamus Cannt	***		1,66,65,231	8,10,002	17175,013	1",292	~ 135	10,157	1,60,01,604		
Upper Ban Doub Canal	•••		2,07,58,596	7.38,020	2,15,27,216	5 64,114	365	5,64,470	2,16,58,112		
Sirhind Canai			2,12,00,621	12,12,408	2,54,79,232	57,106	GS.	57,474	2,41,78,625		
Lower Chand Canal	••		H,18,51,795	7.70,371	3,25,30,766	-22,594	239	-22355	3,17,16,845		
Upper Sutley Inundation C Lower Schag and Para.	ansk inch	uling	16,96,078	1 0 1,041	17,97,010	-5,027	;	-5,027	17 11,255		
Sidhnat Canal	•••		12,17.714	40,223	10 47,030	-1,553	(- 1,55'1	12,90,449		
Lawer Thelam Canel	••		1,60,05,546	4 0 e '00 s	1 65 (4,254	1 36,211	16,230	4,52 150	1,62,03,881		
Indus Inundation Causts	••		28,47 297	x0,185	20 22 642	1,0,);	13	992	39,01,360		
Upper Chenab Caual	••	•	5,41,46,933	0,97 875	3 51, 14,808	-9,151	2,115	6,03°	3,47,71 692		
Lower Bari Donb Canal		•	2,13,14,104	1,75,397	2,17,59,703	1,75,827	8,822	1,84 649	2,21,70,812		
Upper Jhelum Canal	••		4,3(\10.774	9,12,452	4,30,23 226	64,350	30,517	- 37,840	4,40,97,521		
Total Canals in Operat	пов—Ічек	urar.	21,39,25,734	65 <u>.</u> 56 54 :	22,01,92,27B	11,48,168	58,219	12 06,387	(r) 21,79,53,180		
Contribution											
Western Jumpa Canal	<u> </u>	•••	11,60,478		11 60,478			••	11,60,478		
Sirhind Canal			1,43,18,817		1,43,18,817	1,170,		1,170	1,13,22,486		
TOTAL CANALS IN OPERA	пон, Спиз	-13 KEK?	1,54,79,205		1,51,70,295	1,170		1,170	1,51,92,914		

LAHORE:

The 5th September, 1919.

ACCOUNTANT-GENERAL.

FOR THE YEAR 1918-10.

Minor Works, the Capital outlay thereon, the Revenue derived therefrom, the working expenses, of 1918-19.

DULLEG	1918-1	0.	_	·····		HAINTE 1018-1 Judie	erance 9 incl	nrebani During Ubive of Ianges, Id 5.	INTE	nsvete nest I) een Re Leino I	ipper: Venui	NOE AND	918-19.	N	INCL	esui Udin Lies:	0
	led with Revenue	Land		Total	•		1		(sur-	ture	Rate 7	er cent	ring 1	-ine	itura	Rai	e per
Actual transac- tions of the your.	Adjustment on secount of	Total.	Actual transactions of the	Adjustment on secount of previous year	Total.	Direct charges.	Inchreet charges.	Total.	Exects revenue plus).	Excess expenditure (deficit).	Of oxeess fovenue	Of execss ex- penditure,	Simple Interest during 1918-19.	rovenao	Exerss expenditura (deficit).	Of excess reve-	Of excess ex-
Rs.	Ra.	Rs.	Iga.	R.	Re.	Rs.	Ra.	R3.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
		l															
					1							1					
20,618	•••	, 20,616	62,007	 ·	82,097	88,484	4,546		18,087	•••	8∙04						
•••	···		12,277		12,277	10,298	1,493	20,701		8,514		2.21	•••	•••	:		•••
20,616	•••	20,616	08,374		04,374	78,762	6,030	84,601	18,087		1.57						
*** ,				<i></i>	***	2,859	J	2,650		2,859		.00					
2,77,755	140	2,77,758	5,38,714		5,30,714	3,20,742	18,260	3,45,002	1,92,712		,	***				,,,	
2,65,746	***	2,68,746	4,77,762 -	•••	4,77,762	1,00,35	10,293	1,75,651	3,02,111					•••			
3,71,778	•••	3,71,778	6,40,121		0,40,121	3,22,187	10,185	3,41,372	2,08,749					•••	•••		
9,18,278		0, 18,270	10,54,507		16,64,697	8,14,287	47,738	8,62,026	7,02,5;2							::	
-		5						•								14	
12,130		12,130	6 1,814		&1,614 \	30,208	2,701	30,010	2,505			***		,.,			
	y~,						110	fer	••			***		••			
12,130	•••	12,130	41,614		41,618	35,265	2,754	39,019	2,595				[

F. DUKOFF GORDON.

ADMINISTRATIVE ACCOUNTS

Western Jumna Canal

No. 2.- CAPITAL ACCOUNTS FOR

		- Direct Charoes.											
Heads of Account.	15	irrhiae.		Cox	7 92 1 15 1	P 73 0%.		Total		erura as an Crescedia restor 300	9, aintt Cl. 18.		
HEAD" OF ACCOUNT.	Present	.61101	1,12	Perfects .	21 1121	# . L	Pref. ct.	1715-12.	Iniv.	Front Man P	F. S. P. P. P. P. P. P. P. P. P. P. P. P. P.		
L-WORKS.	1:0,	11×.	11:1.	Ita,	n.	1 -,	1:4	"•.	1 3 1(a, 1	16.	17.8		
1 linan Wouls	1				1				{		i		
n'_ Land	4 57.5	!	4,675				2.673	<u>.</u>	1 673		Ì		
C-Works "	\$ 19,44	•	2,30,441	1		1,31	4 21,7		4,54,564				
A,-Baildings	1		12.31		ĺ		57.311	•	12.745				
0 - Macellaniens	12.55	1	12,7;4	i		} "	17 678	;	1-020		!		
Militenatica	21 452	1	14 8%	ì			24 82	1	24.5%		i		
• • •			·					 			! !		
Total .	501507		5:410:	; · ; ·	_	2724	4,1010	a + 10-cm	* \$1,\$;	-	·		
2 Main Canal & Painting			;						;		•		
APerkmanary Expenses	1		£15.00	, a		4.5.	Pers		[[]				
Fr.—Inad	1		\$ 57,150		•	122.	# 10 571	1111	" #,3# }±.				
D.—Regulater	2,34 05.		7,31 11,						47,555	1	.		
ZPal's and Wells	2,61,79		311,41	2727		٠.,	8 . 2		4,714 7,11				
P.—Birer and the Torrest Werks	1	·	2,74	, 41		1.21		;	3 .	•	! !		
P.—(1) = Other Crest Drainers Works	2,2: 4)7	-17	\$\$1617	11,15	}	តាន់	_ 23-57773 ¹	1	: 1"ta				
n-under a	1 21 21 5	***	2 45 4	si:,	• ;	ដែនវប	~\$7.67°{	· · · · · ·	1,57,000				
11,1404[48	340,465	••	\$ 40,332	15,11	. ;	17.35	ા ભાગો	••-	20.00		•		
Fre-Navignber World	17:77.5	• • •	12 753	: . !		îr1	11:11:	1	14 (7)				
dimittely in the	28111		ee 112	2.5		: 458	· · · · · · · · · · · · · · · · · · ·		21,7%	•	•		
R Puithers	C 20. VA	1,938	F.5.1 2	£* 172		45 177	. 16 15	1, 10	7,1 %	1 2			
Le-Partherite	19,017.17		\$19 PT 327	3	. !	3, 500		•••	្រែស្រងវ៉ា		;		
M.—Plantstone	10172	[10:55	1.5	!	256	:: . !						
O. Willer den rie	£\$ \$1.00	,,,	73,57	: : :	. !	: :-		•••	7-01:	;			
P.—Manteneries	1,70 00 1		25 -63	1~:5.	. }	15,141	17722	•••	1,57 8				
Total	1 11 1 75		13/31345		' '	3 27 775	31.1 - 5	5057	21 27,242				
-Instrumentalias-					ı		1		.	; ;			
A Preliminary Experies	539,59	,.,	es 011	12 57		270,21	74,020		1,55.651	•			
DLand	7,10,42		3,10,5*1	1	ŧ	6,25.			8,17,710				
CWorks	11 57,719		11,5 ,711		- 1		:		13,16,040				
L-Harthwork	13 05,277	1	18,65,907				1	- 1	18,70,5/3	-			
O Miscellane dia	\$1,56 4,80°0			29 37.	•	אַן פֿינדָ	;	- 1	4,15 27 (
PMaintenance	1 1		54,021			12,5-4	67,801		47,8 01				
Torat	34,12,695		71 10 005	3 5 4 10 3	}	Rf 101	\$7,71,05°S		37,71,0/1				

ACCOUNTANT-GENERAL

FOR THE YEAR 1918-19.

Project.
AND TO END OF 1018-19.

11-TOOLS AND PLANT 1. Scientific Instruments 2. Plant and Machinory 3. Tools 4. Novigation Plant 1.933 -46 2.18,004 2.08 2.231 -46 2.41,772 3.081 2.00,014 2.00,015 3.00 3.					DIREC	T CHA	rges.				on as (Con- mates March	ainst.
4.—Drahtagra and Pro-	HEADS OF ACCOUNT.		Imperiat	44	Con	TRIBUT	rost		TOTAL.		mated Esti	rimete a
4.—Deliminary Bar. A.—Dreliminary Bar. A.—Barthwork A.—Barthwo		Províaus.	1018-19.	Total.	Provious.	1918-19.	Totel.	Pravious.	1918-19.	Total.	Cost of con now ustin struction closed on 1895.)	Expenditu
## Propage Pro	rective Works-	1	١,	Ra.	Re.	Ra,	Rg.	Ra.				Rs.
TOTAL 7,8,065 7,8,063 3,111 3,113 7,41,177 7,41,177 TOTAL I.—WORKS 1,12,16,304 -3,057 1,12,07,507 0,00,640 8,00,840 1,21,11,004 -3,007 1,21,07,047 Add exponditure on general works at and odd 1,564-06 10,24,123 12,124	ponsos. B—Land C.—Works L.—Earthwork	50,225 2,08,426 4,27,464	•••	69,226 2,08,426 4,27,464	 3,113		3,112	59,225 2,08,426 4,30,577		50,225 2,08,436 4,30,577	i i	
Total I.—WORRS 1,12,16,304 -3,057 1,12,07,307 0,00,610 0,00,610 1,21,11,104 -3,057 1,21,07,947 10,24,123 10,24,125 10,24,12			—		 						i	
Add expenditure on gene properties at ord of 1564-02 pt. 1,31,34,487 a.057 1.31,31,430 0.00,640 0.00,040 1.60,35,127 a.057 1.40,32,070	Total I.—WORKS. "								l		4	
II.—ESTABLISHMENT. 5 DIRECTION (a) 0,09,881 6. EXECULTYS 24,01,208 7 S. SECGLAL SUNVEY. 1,31,782 8. SECGLA	Add expenditure on geno- ral works at end of 1864-05	19,24,123										
5 Direction (a) 0,09,881		1,31,34,487	<u>-3,057</u>	1,31,31,430	9,00,640		9,00,840	1,40,35,127	-3,057	1,40,32,070	1,40,32,070	1,40,32.070
TATAL	5 Direction (a) 6. Executive 8. Special Survey	24,01,205 1,31,782	-968 968	24,01,205 1,31,782	1,57,882 6,066	***	1,87,682 0,066	25,59,087 1,37,848	—9,08	25,69,087 1,37,848		•
## Total 31,42,656 -908 31,41,638 2,35,612 2,30,542 33,79,108 -909 33,78,230 ## Add expenditure on gond ral works at end of 1804-65. ## Total 33,28,214 968 33,27,275 2,30,512 2,30,542 25,04,788 908 35,63,820 36,63,820 3	LEAVE AND PENSION			•								,
### Aid expenditure on gond ral works at end of 1864-66. **Total		31,42,656	-908	31.41.688	2 36 Kt0		2.30,84:	33 70 108		33 78 230		
TOTAL 33,28,210 — 968 33,27,278 2,30,512 2,30,642 25,04,788 — 968 25,63,820 36	ral works at and of											
Scientific Instruments		33,28,216	—p68	33,27,278	2,30,512	<u> </u>	2,30,542	35,04,788	<u></u>	35,63,820	35,53,820	35,43,820
1V.—SUSPENSE ACCOUNT. 14. STOCK 15. STOCK PURCHARES. 16. STOCK SALES 35. 465. 500 16. Hisgellaneous Anvancis Total 2,13,047 23,427 2,36,474 3,081 3,742 3,081 2,13,010 2,13,	1. Scientific Instruments 2. Plant and Machinory 3. Tools 4. Novigation Plant 5. Camp Equipage 6. Live stock 7 the co furniture 6. Repair and Curriage	1,933 23,073	-46	. 2,18,004	20x	,		 2,231 20,014		2,41, 772		
COUNT. 14. STOCK 2,13,047 23,427 2,36,474 2,13,047 23,427 2,36,474 15. STOCK PURCHARIES. 15d. STOCK SALES 35 465 500 1 35 465 500 1 35 465 500 1 35 465 500 1 35 465 500 1 35 465 500 239 3,742 3,081 239 3,742 3,081 239 3,742 3,081 2,13,010 2,13,010 23,303 2,36,373 3,081 2,13,010 23,303 2,36,373 3,081 2,13,010 23,303 2,30,373 3,081 2,13,010 23,303 2,30,373 3,081 2,13,010 23,303 2,30,373 10,202 1,60,13,081 11,00,050 11,00,050 11,00,050 11,003 11,053 11,953 11,953 11,953 11,105 APPORTIONMENT.	TOTAL	2,18,060	-46	2,18,004	2. ,768		23,768	2,41,818	<u></u>	2 11,772	2,41,772	2,41,7 4
16. Stock Purchases. -311 -4,271 -4,862		7.	٠.,									
15d. ETOOK SALES 35 465 500 35 465 500 35 465 500 35 465 500 35 465 500 239 3,742 3.081 239 3,742 3.081 239 3,742 3.081 239 3,742 3.081 239 3,742 3.081 239 3,742 3.081 239 3,742 3.081 239 3,742 3.081 11,68,93,793 19,202 1,60,13,081 11,00,050 11,60,950 1,80,64,745 19,202 1,80,74,335 1,78,37,662 1,78,37	14. STOCK	2,13,047	. £3,427	2,36,474	.,.			2,13,047	23,427	2,36,474	,	
18. Hisgellaneous An. 239 3,742 3,081 239 3,742 3.081 VANCIS TOTAL 1,68,92,793 19,202 1,60,13,081 11,00,060 11,60,050 1,80,64,743 19,202 1,60,74,035 1,78,37,662 1,78,37,		311	-4,271	4,582	.59	•••	-,	311	-4,271	1,5F2	•	
VANCIB TOTAL 2,13,010 *. 23,365 2,36,375 2,13,010 23,303 2,86,375 GRAND TOTAL 1,69,92,793 19,202 1,60,13,085 11,00,060 11,60,950 1,80,64,743 19,202 1,80,74,036 1,78,37,662 1,	1		. 468	5 00	1,.	•••		35	485	200		
GRARD TOTAL 1,69,93,793 19,202 1,50,13,085 11,00,050 11,60,950 1,80,54,743 19,202 1,80,74,035 1,78,37,662	BIDHAY			3,081	,			239	3,742	3.081		` • • • • • • • • • • • • • • • • • • •
V LESS RECEIPTS ON CAPITAL AC. COUNT. NET TOTAL 1,68,82,312 19,202 1,49,01,604 11,60,478 11,60,47F 1,80,42,700 16,292 1,80,62,082 1,78,25,700 1,76,20,79 APPOINTIONMENT.	·					.,,		2,13,010	23,303	2,36,373		
NET TOTAL 1,68,82,312 19,202 1,68,01,604 11,60,478 11,60,47F 1,80,42,700 10,292 1,80,62,082 1,78,25,709 1,76,25,79 A PICHTIONMENT.	VLESS RECEIPTS ON CAPITAL AC-	11,481										1,78,37,60£ 11,963
APPORTIONMENT.			19,202	1,69.01.604	11 . 60 158		13 (50 475	1 80 40 700	10 000	1 90 90 00	1 #0 04 ***	150 110 000
.40.—Indication Works 1,58,83,312 10,202 1,09,01,004 11,60,478 11,50,472 1,50,42,700 10,222 1,50,22,082 1,78,25,700 1,75,25,70										1,80,62,082	1,78,25,700	1,76,20,799

^{. (}a) Share of accounts excluded under Imperiol from 1912-13 to 1917-16.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-19.

Western Jumna Canal Project.

No. 5. RETENUE ACCOUNTS FOR AND TO UND OF 1618 16.

]	wraniet.		(-	ontell th	ч	,	ILTAS.	-
Hpv tupps	Previous,	191 Pr	Tan	Parlic.	tuis t	Ve tal,	Pieví na,	71.10	T. tal
		1						T MARCON 174 .	
	lle,	lis.	115	n.	.,	1:	1:4.	21x.	3.2.
the appropriate	***	\$\$ 411 to 7		••	,				
Equipment of the grant		205 L.		.	<u>, , , , , , , , , , , , , , , , , , , </u>				
Try of the		; * * t	:		T d X				
Beresser from the grant		;			**	:	•		
Naustra.		: :	,		\$24	•	-		
Surer Bergu		; ;				{ !			
Fried Billings	•••	7 :							,
Yuna:	-11	172	•••	211	11				
Mishila a un and est el compri	edk	\$2,137		***	31				
le mT	10,00 10,811	26 57 233	10,023-7,510	\$1771	1,050	77,8.54	\$1.21474,244	26,5,617	1022 2101
Sucre of far 1 per- nual paths tool in the Unit Import ment.	1 92 37,194 '	2 14,441	d Cr da tiga			,,,,	1,02,05,405	2,1 < 4,2 f	1 146 57,1 52
Introduction calls pro- code of waster code less that	3,54.2	2 9f	2,281			-	1 582	£p.s	9,6>0
Total	1,92,79,181	2,15,741	16),64 22.				1,07,39,49.1	7,1a 741	101,77,602
Total Berniers	12,22,79,792	(d) 25,76,072	12,81,55,051	20,724	1,292	37,05	12,23,45,769	28,77,38	12,51,68,163

⁽d) Re, 6,14,270 more would have been carnel had not Owners inter on crease lands irrigated residued as factor of Revolute assignment.

OFFICE OF ACCOUNTANT-GENERAL, ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Westorn Jumna Canal Project.

No. 3.—REVENUE ACCOUNTS FOR AND TO END OF 1918-19.

		lipperiae.		C	ONTRIBUTIO	м."		TOTAL.	
CHARGES.	Previous,	10 18-10,	Total.	P.ovious.	.018-10.	1r.	Previous,	918-19.	^ = ·
	Pre	101	T ₀	Pro	101	Total.	Pre	101	Total.
(P-ENTEN-	. Ra. , .	Rs.	1k ₉ ,	· Ra.	R3.	Rs.	l₹s.	R9.	Re,
SIONS AND IM- PROVEMENTS.	,							• -	
1)—Hred Works	6, 06,190	0,982	2,16,172	14,016			2,21,106	10,807	2,31,9
2)—Main Canal and Branches.	11,10,660	23,338	14,33,924	2,70 0.6	(a) 18,854	2,80,529	16,81,335	42,193	17,23,5
3)-Distributaries	8,10,350	58,900	8,75,250	50,513		50,513	8,72,872	58,839	<u>0,31,7</u>
AND PROTECTIVE WORKS,	76,088	4,566	89,651	2,610	89	2,729	78,729	4,656	83,3
Total I. A.	25,09,297	96,786	26,06,083	3,4-1,744	10,768	2,61,512	23,54,941	1,16,55	29,70,6
.(2),—MAINTE- NANCE AND REPAIRS,				-					,
I).—Head Works	10,12,897	69,663	19,72,460	83,274	4,761	93,035	29,01,171	51,524	20,654
3)—Maiy Canar and Branches.	50,81,195	2,72,854	83,57,382	4,83,605	18,814	5,02,219	85,68,103	2,91,528	8,59,0
3)Distuibutarir:	45,00,132	1,80,694	&c,02,816	1,71,210		1,71,219	48,77,351	1,56,684	. 45,64,0
d)Drainage Works,	6,46,927	25,201	6,71,231	£00,12	261	22,621	6,67,900	20,255	6,01,1
COTAL J. B	1,51,40,461	0,44,425	1,56,93,569	7,65,061	21,300	7,89,427	1,59,14,525	5,65,791	1,61,93,3
3).—COMPEN- BATION.	1,12,276	1,370	1,13,645	2,891	. 93	2,784	1,14,906	1,463	1,10,4
4)ESTABLISH MENT.							,		` .
5).—Derection and Account.	22,26,163		(4)	98,629 }	-		23,21,732 }		
D).—Excourive Establishment	}	4,00,432	(c) · · · · · · · · · · · · · · · · · · ·	}	14,401	4,82,548		[4,14,313	1,19,28,5
7)Midlear Do.	67,19,502			3,60,428		. !	90,88,930		
7A)-Reyenue Do.	65,97,503]	2,03,670	. 68,21,254	1,35,748		1,38,748	67,36,261]	2,03,070	69,00,00
7B)—Navication Establishment,	18,168		, ,		••,		18,168	-	
IO).—Plantation Espandibument.	790			· :			700	.	<i>i</i> ••
7E)-Mills And Machinery.	1,123				}		i,123,	·	111
, .FAVE & PENMON ALLOWANCE.;	140	₹1 ••	***	84,923 -	2,025	80,052	84,923	2,020	86,98
TOPAL	1.76,65,189	6,04,092	1,81,67,281	6,91,728	16,520	7,08,248	1,82,54,017	6,20,612	1,98,76,81

 [[]a]. Includes Rs. 13,48° on account of Scigniorage during the year. Up to date Rs. 2,01,57\$.
 [b]. Includes Rs. 57,401 on account of fees for collection of Revenue
 [c]. Saaro of Accounts Establishment excluded under Imperial from 1912-13 to 1917-18.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Wostern Jumna Canal Project.

NO. 3.-REVENUE ACCOUNTS FOR AND TO UND OF 1918-19,

	,	Increta.		Ç.	0576D 1710)	м.		Totas.	
Снарові									and the same of th
	Live 61 veri	1715.17	Arte Str.	Peet 152	1034 13	Total	5 ts.2.3	1334 19.	[
	r.	ı: .	R1.	I.z.	le.	r	119	Hs.	ita,
(5)= TOOLS AND					·		,	i	•
(I) SCIENTING IS. STOCKEST C. ASD. DIAMESTIC MAIR LIGHT	#,794 \ }:				•		2,761		
(2) — 11 1 277 A 251 . Siacus pret.	5,742					;	3,742		
(5) —Tolta .	3 371,			•	! !		∌, ™.		•
(4) Navidation Plants.	2,216	v 17.			•	,	1,215°		
(F) —Cart Lagre-	24.5				•	:	21.2	s 1123	ton me
(f) Line Stock	171		;		•		471		
(t) On a result of the contraction of the contra	25 %		; 1		•	•	z: "		
(12), - Micheland	5,43,647		ì	\$3.470	. 117	21,621	3,1 1727		
(b) Ryrams and Cast tans.	250/017			par			9,53,637		
			·		***************************************	,			
Terat	\$ \$4700	9,177	400.00	21,12	: :::	t4,631	รุสสมารา	; ************************************	5,411 +
(6) =REPUNIS OF REVENUE.	3 72,14	40	2 73,673		.,	,	3,77,186	514	370,53
(7. PROPIT AND LOSS.	1 295	••	1,2''			;	1,272	-	1,005
General work to and of 1-61.65.	1-4-2422	••	4-9-,72				t- 02.62*	•	45,92 575
Totau	1,11,52 957	12.57,057	5,21,10,0%	1-,7-,41-	61.161	15,63,63r	4,20,41,400	13,15,271	£,12,09,001
Indirect charges distrable to Le- venue Account 14 per Account 50 6,	21,01,174	+5,211-	20,47,17		••		25,61,176	P\$ 22>	7 25/46/410
Total Chapges	1,40,14,162	13 12,557	1,55,55,1	15,27,410	61,194	15,50,610	4.65,12.674	14,05,529	¥,72,46,137
Balance, Net Re-	7,62,65,570			-17,02,612		15,53,524			•
4	10,22,79,995	25 76,072	12,61,50,06;	35,771	1,282	37,021	12,22,15,760	29,77,323	12,51,00,121

Not debitable to imperial Revenue

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Western Jumna Carril Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1018-19.

,	Amount,		٠				Amount.
Rs. Interest charges to end of 1917-18 Do. for the year 1918-19 1,50,01,60: 'rd enthy to end of 31st March 1919 9,640 whalf outlay during 1918-19 9,640		Nat I	lavonuo 10 Da.	calized to	end of 1917- during 1916-	1	R4. 7,82,66,533 15,33,793
Total . 1.65,91,958 erest at 3-1818 per cont	5,85,144						•
' Total	2,16,33,517						
inneo Revenue after defraying Interest charges	5,51,66,023	3					
Total	7,07,00,510	- -			Total		7,97,99.51
No. 6—ACCOUNT OF INDI	RECT GHAI	RGIES :	FOR AN	D TO EN	D OF 1918-1	0.	
Particulars.		· - · · -			Provinus.	1018-10.	Total,
PITAL—	***************************************	-			Rs,	Rs.	Rs.
Capitalization of abatament of Land Rovenue .		•-	••		2,16,561	•••	2,16,5
Loave and Pension Allowances	porial - atribution		**	••	5,93,666 29,019	—135 	5,03,5 20,0
<u>:</u>			Total	- .	8,89,266	-133	8,39,1
eave and Ponsion Allowancon debited to Native S transferred to Account No. 2 of the Canal,	itates treated	aı Di	reet eline	eges and	20,010	`	29,0
ot debitable to Imperial	•	••	•	••	8,10,217	- 135	8.10,
evenue				1			
apitalization of abatoment of Land Rovenuo	· · ·		••	,	10,702	725	17,8
1.02		••	••	••	26,44,386		29,28,0
oave and Pennion Allowances			••	• •	84,023	,5'050	80,
oave and Femilian Allowances . { Gor tribu	tion					Ì	
oave and Pennion Allowances Cor tribu	rion		Total		20,40,101	87,327	30,33,

28,61,178

85,208

20,40,476

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Western Jumpa Canal Project.

No 6.—SPATEMENT COMPARING CHAPGET TO DATE WITH SANCTIONED ESTIMATE,

	Curiores	GAP TEE	. 45 Per .	1 12.	A1.3 : 1(1)	guss,	Į į į	1
Particular 4	Elevino Hears from the fac-	String Times	Togul.	44 \$7 41F # 13	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the result Bulance	T to the state of the property	Itanylea?
IMPERIAL	Re.	11.+	Re.	11%	Er.	lir.	Цr	
Din er Cusagrs.					**	1		
Works	1,62,56,271	e ,81,165	: #1,"1,1"0				1,51,51 12:	
Ditablement	17,27,227	1.62	17,5121-	••			37.77,271	
To Land Plot	1,77.74	tu nto	+2.15 644	••		·	the st	
Suspens Williams	,			2,5 55.		* = 5 -,518	2,30,200	
Teal	151 012	34,13,125	1,0 17 11 14	#1 77	***	;	i,canser	
Lees Prought on Copital Accions	11,201	: 1	13,1-1		*	1 0 7 0 1 0 7 0	11.44	
Net Taizi	101 44.44.	21, 3,14*	1 * * : . ; }	· ·:	• •	(?#, 457	papaga s	
Indurer Charle					,	1		
Capitalized at the tract of Lord Harmer	1,5 : 103	142, of	2,11,112		· ,,	; ··	g,b ,*31	
frave and Penerus Allowands	Z,12,000	41,425	. C No.		, •		1,9130.	
Total	สรรถเ	1,14+21	villet.	••	••	, "	~ 101 12	
Grand Tetal	1,5- 45 345	512,9 -	174,: / 11	## ·:	***	T1, 1°	17531/ 1	
Сохинвитюю.			-		AND DESCRIPTION OF THE PERSON			
Dinact Chairns	Ì				i (
Worka	8.31,711	ŧ	20 70		••		Pr. 1. 5. 21	•
Catallishment	2,17,4/-1	19,000	1, 8,81.	••	••	•	2,231 1.	
So de end Flett	20,511	1.23 ¹ 1	'۱۰۰۰ در ۲۰۰۰				£ 1,74	
Titn!	1033587	P & T. ' -	11,50,000		••		11 (29,9)	
Leve Receives on Captal Actions.	47:		17:		,	.,	17.2	
				1	,			
Net Total	10,71,1-1	1202	11 69 178		*** ***		11,70,178	

ADMINISTRATIVÉ ACCOUNTS FOR THE YEAR 1918-19.

Upper Bari Doab Canal Project.

No. 2, CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

- · ·	,	D	RECT CHARGES.		Cost of con-	
. Heads of Account.			Imperial,		struction as now ostimated Construction	against close
		Previous.	1018-19.	Total.	Estimato closed on 31st March 1890).	Estimato,
I.—WORKS.		Re,	Rs.	Rs,	Rs.	Re.
Hran Wores—		,				
BLand		261		-261		
C.—Works	***	8,23,558	.,	6,23,668		
K.—Buildings	••	65,959	***	05,038		<i>'</i>
, , , , , , , , , , , , , , , , , , ,		200.000		9 00 045		<u> </u>
Total	••	8,80,255		8,80,265	·	
Main Canal ann Bhangnes—			. '	• •	l	
APreliminary Exponees	***	8,156	••	8,150		
B.—Lund	••	1,41,785	-2,070	1,39,706		
D,-Regulator	***	3,52,039	٠	3,52,039		
L.—Falls and Woirs	٠	.17,49,484		19,40,484]	1
F.—River and Hill Torront Works	•••	5,39,098		5,39,098		
P. (1) -Other Cross Drainage Works	***	1,18,245		1, 18,245		,
G.—Bridges	••	8,52,430	•• ,	8,52,430]
H.—Escapes	4	6,38,733	***	6,38,733		1
I.—Navigation Works	•••	4,78,688	,,	4,78,688		
J,Mills	٠,	1,47,530	,,,	1,47,530		1
KBuildings	••	10,81.002	10,345	10,91,317		-
L.—Earthwork		39,00,749	•••	39,00,740		
31.—Plantations	••	95,475		95, 175		<u> </u>
O.—Miscollancous	••	7,24,457	•• ,	7,21,457		
P.—Maintonance	••	75,872		75,879		1
Total	••	1,11,07,682	8,286	1,11,15,818		
-Distributaries-		, , , , , , , , , , , , , , , , , , ,		•		
APreliminary Exponses		24,333		24,333		
B.—Land	•••	3,68,015	***	3,08,015		1
C.—Works	•••	10,20,805	:.`	10,29,600	1	
LEarthwork		16,05,384		16,98,781		-
O.—Miscollancous	• •	8,16,510	-733,	3,15,807	1	·
P.—Maintenanco	••	8,354		8,351	1	
Add-Dinanagar Navigation Channel		35,776		35,776	L	
Shalpur Water Courses	1	03,427		63,427	•	ļ
Lahoro City Rajbaha	• •	12,724		12,724	l .	
Total	*	41,67,358	-733	41,50,025	 	-
Total carried over	**	1,01,54,105	7,533	1,61,61,728	→{ <i></i>	-

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1015-19.

Upper Bati Donb Canal Project.

No. 2.—CAPITAL ACCOUNTION AND TO HAD OF 1918 19-concil.

			L,	in or Change	•	Contain no	
Hespa or Accors	i.			Iryenal.		ina retendral Larmetten	Trainfilmed
			Previous.	1015-19.	Total.	n 31-7 Mar 1 1650)	Panis.
1WORKS	ererie.		Its.	1:	R·.	1:	1:
limeth			1,61,111.5	7,13:	1,51 53,728		
6. Prairion and Propieties							
A - Promin by Repence	**		g-11	•••	5		
R.—Land	••		; (514)		r,5t9		
CWetst	***		saye at		58160		
I.—E. stiwerk	••		12,217		17,537		
O.—Ni collanders	••		1 163		1,1+7		
	Tort.		1,5 - 1,5 - 1	• •	1,2 ,514		'
Total 1,W	onus		1,12,5 , 11	2,5	174,51-2	3,010 (10:2	1. ,98,00
H181A0145.47	HINE.				AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUM		[
5. Direction			: ::(\$6,\$%	•			į
C. Executive	••		se ment	1	38,74,174		•
7. Midral			2,40%	, 1	,,		ţ
1. 3.4	T. 745.		34,51,5 %		:174,171	21,77,312	24,117
BL-TGOLS AND	PLANT.						-
2. Plant and Ma lan my	••	•••	15,120				
4. Navigeti n Plact	***	•••	**	3 140	620,511		<u>i</u> :
C. Hay altered Carriage	•••	••	Spire,				
Miscellatic was	***		5,16,- \$9	ز			
•	Torat	•••	17,2 371	1411	9,7,5(1	,511.257	5,27,411
IV.—Suspense Acc	SOUNT.						
14. Spek	•••		4,05 495	\$57,191	8,52,176		
15. Steel Porghe er	••	••	19,471	10,420	- ١٠٠١ (١٠ سـ		
15a. St cl. 8 Ice	***		કાઈ	7:3	22	ļ	
16. Mive Hanton Advances	••	•••	1,211	1,61 075	1,75,141		
18. London Steres	* *	••	ं दब्ध	1491	15		.
	TOTAL	••	4,27,177	5,55,573	0,79,310		
GRAND	TOTAL	•••	1,11,10,955	8,43,111	7,10,45,697	2,0 <1 5 . 1	- 17,80,14
VLUSS RECEIPTS ON CAP	ITAL ACC	ovat.	16/026	••	16,555	16,005	16,933
Ner	TOTAL	••	.; la, e4./e3	5,61,111	2,16,55,14:	\$',07,45,5. G	2,0 ,79,189
APPORTIONME	CNT.	,					
10.—Irrigation Works	••		£23, £3,01,2	· 5/4,111	2,10,59,142	,	1

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Bari Doab Canal Project.

No. 3.—REVENUE-ACCOUNT FOR AND TO END OF 1918-19.

		IMP1 RIAL	-			INFERIAL.	•
, Receipts.	Previous.	1918-19.	Total	Charop3.	Previous.	1018-19.	Total.
	R·.	Rq. 4	Its.		Rs.	Ra.	Rs.
Occupiers' rates	10,41,49,503	37,52,367	10,70,01,9:.0	(I)—EXTENSI)NS AND IMPROVEMENTS.	,	.,	•
	į		1	1 -HEAD WORES	4,09,885	416	4,06,251
Ownors' rates on irrigated land.	8,875	••	8,57.	2.—Main Canal and Branches	14,00,300	26,606	15,16,075
iagu,				DISTRIBUTARIES	13,18,217	33,770	13,52,026
Sales of wator	110 ₁ 10 ₁ 8	32,481	6,38,500	i.—Drunage and Protective Works.	1,02,352	20,007	2,22,259
				Total (i)	34,00,743	90,763	35,00,511
Supply of towns	3,627	G6	. 3,093	(2).—MAINTENANCE AND 'REPAIRS. 1.—HEAD WORRE	48,21,711	45,387	48,57,128
				2.—MAIN (ANAL AND BRANCHES	93,14,159	2,07,552	96,12,041
Receipts from Plant-	11,13,603	37,440	11,67,252	3.—1 istributanius	47,23,167	1,30,732	48,02,893
ations.				IDRAIDAGE WORKS	1,36,190	10,153	1,45,343
Marata from other		5,10 3	2,52,136	Total (2)	1,80,91,587	4,92,824	1,04,57,411
Receipts from other Canal produce.	2,46,913	D, 10-1	المام المحالات	(3).—COMPENSATION.	40,516		46,616
•				(4).—ESTABLISHMENT.			
Water-power	45,25,014	1,23,912	40,18,858	5.—Direction and Account	23,92,140 (a)	1	
				0 —Executive Establishment	89,04,331	3,98,202	1, 18,93,030
Navigation Recoipts	5,477		5, 17°	7-Madicar Do	1,29,257	}	
ravigation recorpes				7A REVENUE Do 7C PLANTATION Do 7DLEAVE AND PERSON ALLORANCES.	73,31,122 (b) 40,165 52	2,25,111 (b) 13,147 ••	75,56 236 53,302 52
Rent of Buildings		8,061	1	TOTAL	1,58,57,057	0,38,403	1,94,95,320
			{	(5).—TOOLS AND PLANT.			
Finos	17,51,287	1,600	0:,22,235	I.—Scientii ic Instruments and Drawing Materials,	1	1	
Miscollancous and other R.coipis.		4,61,100		2.—Plant and Machinery 2.—Tools 1.—Naylo-tidn Plant 5 Camp Equipage 6.—Li.t Sieck 7.—Object Substiller	8,22,213 2,213 887 147 1,517 2,927 3,19,942	10,830	, . 7,13,293
Total	. 11,20,10,910	41.22.316	11,70,38,650	8.—REPAILS AND CARRIAGE D.—MI-OELLANGOUS	3,55,062	j '	
2013				TOTAL (I) -TOULS AND PLANT.	7,02,421	10,869	7,1 4,: 03
				6REFUSDS OF REVENUE	1,74,361	3,111	1,70,192
Share of Land Revenue collected in the Class		6,13,023	1,07,65,65:	(7) PROFIT AND LOSS.	1,073		1,0.3
Dopartment.		1.		Total	4,21, 0,851	12,36,0.6	4,71,26,010
Interest on sale proceeds of waste lands benefited	8,90,61	73,56	0,44,10	Indirect charges debitable to Rovenue Account as per Account No. 5.	20,40,166	89,485	30,35,750
,				TOTAL CHARGES	4,51,10,210	13,26,420	4,61,63,666
Total .,	1.70,30,60	0,87,18	1,77,20,78	Balanco, Net Rovenue	8,47,09,665	37,81,114	8,82,03,7,0
TOTAL RECEIPTS	12,96,40,01	1 5ì,09,53	13,47,59,41	GRAND TOTAL	12,06,10,911	51,09,634	13,47,50,446

⁽a). Sheep of Accounts excluded from 10:2-13 to 1917-18.
(b) Incl. 1.c. Re. 85,972 on account of fees for collection of revenue.

OFFICE OF ACCOUNTANT-GENERAL, ADMINISTRATIVE ACCUENTS FOR THE YEAR 1918-19, T pper Pari Book Canal Project. No. 1.—INTEREST ACCUENT FOR AND TO UND OF 1918-19.

	Ama at,	•	Am nat.
Total Interest charges to end of 1917-18 Do. Ser il a year 1818 in Total outlay to end of March 1849 in: 2,10,28,142 Leve Laff outlay during 1918 in in 2,82,057 Mean Capital at charge	ice.	Set Betermorenford to end of 1915-19 Do doring Pelsolp	154. 6,15 07,505 37,7 4,114
Interest at 3/4518 per cent, on diverse	7 48,57-		1
Tetal	262320.0	,	:
Italiane Revenue after defraying interest of arger	0,15,14,500	!	: ; 1
faint	4 4 2 123 7 34	Tols!	1549 333

NO. TO SECOUNT OF INDICEPOSITIONS UPON ASSOCIOUND OF MICH.

1	*****	17 1 1 11 11					Lines Es.	14844	Total
game and a si t		•	•	•		}			~ ~ ~ ~ ~ ~ ~
Cipital-				•			Rs 3	Re.	ii.
Capital'anien el el etement el l'ent li-	-1 41% 4		••	**1	••	•• أ	\$1.50%	***	19,781
Leave and Pension Albo rices	•••	•	***		••	*** 1	7,17 तथ	34.	7.17,010
				35	ini		7 425		7 47 21 4
Review-							1	1	
Capitalization of at sten ent of Land Re-	Ver to	••	•••	**	**		20,220	***	\$9,419
Lause and Per in Alexandra	••	••	**	•••	147	!	2200/11	\$ 3 msm	59 E5,54 t
				T.	r4	}	10 paper		2058,350

NO. 6-STATISHEST COMPARING CROBBES TO DATE WITH ANCHONED ESTRACE,

,	Custors ar	enserre vo	5° 15° 878 100° 41.	t)	r daken pi Kripan 	221%4	To tat	,	Repares	
Pan-Criafa.	Consentition The sent th	n need to	Tetal.	dis-	As analyt Palathyert Republic	Propest Balan of Philipses,	flages to Linda ned Linda d Cept t eat galac	3111 1115	No. at 1	America.
Dies T Charges,~	Ji>.	Rs.	Įiu,	lis.	Ľ,	Jb, -	lis.		:	lin.
Norks	1,21,50,701	3041,605	3.63.55,35	1e + 35;	\$ C1°	has em	1,00,00 (0)		402.W.L	
Limbort	27,41 152	ด,รว,รวชุ	21,71,171	₩.	1/5.4	9.	31,71,171	11;	1 8 234	8.711
Tools and Plant	1,99,218	4,04,27 - [9,24,711	,	7,78.	7,711	4 511		: _[791-18,1,	3,503
Suspense Butance		}	••	0,79,710	.,,	^(\$2,5H	9,72,311		4-2-18	0.107
Total	1,57,10,154	50,55,080	2,07,96,14	6,7%,950	9,307	5,00 %	2,87,77,810			
Less Perciptura Capi- tal Armount	10.522	<i>,</i>	16,05		,,		14,0 :			
Set Total	1,67 25 50	59,88,857	2,87,79,15	8,74 95;	7,407	5.69.741	2,18,54,147			}
·Indirect Changing.—			Annual Statement of the			ر به حدید جیجیت کیستانی				
Enpuntized at atemonic	6,241	12 25%	56'v?1	44	•••	••	20,753			
of Lard Revenue. Leave sual Pension Allowance.	6,22 375	02,231	7,17,956	•••		p er	7,17,956			•
Total	6,20,786	1,07,861	7,39,620			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.31,454			
GRAND TOYAL	1,63,31,259	61,00,456	2,15,17,501	\$,7-,953	0,107	-8,69,510	2,23,84,762			

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Sirhind Canal Project.

No. 2.—Capital account for and to exd of 1918-19.

•	1	Theriar Comminge												
HEADS OF ACCOUNT.		Lupe	TIAL.		Cont	ntau	TION,			Тота	L.,			
	Provious,	1018-19,	Total.	Previous.	1914 13		Total,	47	'span's	918-19.	Total			
IWORKS.	Re.	Ra						— —		_=				
I. HEAD WORKS-	1					•	Ra	R	a.	Ra.	Rs.			
iPreliminary Expens	s- 48	3	1	,,,,	272						1			
es. 3.—Lind	1		· 1	1	974	.		272	755	***	75,			
Work	•1	1	2,10,		9-3			. 1	1,037	••	11,03			
Buildings ·		1		1]		5,29,		·	••	14,70,201			
Miscollancoun	73,804	1	70,:	1	1	927	_	1	1,192	2,0	75 1,23,707			
Maintenanco	24,101		1 '	1 '	538	- 1		1	7,342	•••	77,34:			
Torat	11,23, 40		21,1			_ -	13,5		,003		37,063			
-Main Canal and		1,0	15 11,25,5	5,01,2	10	27	5,95,1	72, 17,18	100	2,5	75 17,20,765			
Baancury. Preliminary Expense.	23,630			l										
-Land	5,57,860		23,5		1		19,3		034	••	42,034			
-Regulators	4,16,720		1			i	2,51,3	7,,	212		3 8,11,159			
-Falls and Weirs	7,74,938	101	4,18,7	1	1		2,95,02	1	1	••	7,13,747			
-(1).—Other Co.	12,32,587	••	7,74,0;	1	1		3,07,90	1		••	11,72,847			
Drainow Works. Bridges.	8,16,361	3,10	12,32,59		1	- 1	0,41,54	1	1	***	22,74,136			
-E-capes	1,86,080	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1	1	4,80,117	2 13,06,0	.13	3,161	13,09,104			
-Navigation Works.	17,81,197	441	1,86,68	1	1 7		1,03,51	3 2,80,0	69	•••	2,89,000			
-Mille	41,513	6,62	4,,		ရ		3,84,34	0 21,15,5	43 -	-6,521	21,09,022			
- Ruftina		41	41,51	1			••	41,5	13		41,513			
-Englishants	0,60,863	27		1 '	1 ''	1	3,10,34	12,61,2	ns	278	12,01,460			
-Plantations	48,76,003	••	48,70,00	3 31,61,011	···	3	1,61,614	80,37.7	07 .		80,37,707			
-Tanks and Resor-	1,20,812	, 11,	1,20,81	2 1,04,358	••		1,04,358	2,25,1	70¦ .		2,25,170			
Voirs.	1,640	•••	1,940	1			••	1,9	0 .		1,910			
-Maintenance	87,507	••	87,80				77,387	1,05,28		. [1,65,284			
7-	2,27,821	••	2,27,82			_2	00,075	4,36,80	0 .	.	4,36,806			
Total I	20,50,814	-3,135	1,20,17,709	18,45,325		08,	48,325	1,83,99 10		[·	1,88,90,034			
Preliminary Lx.						1			-					
len-e.,	51,005	'	\$1,008	, , , ,	100		39,471	01,37	θ.	.	61,379			
	3,80,635	147	3,56,083	72,001	•14		72,601	4,50,13	1	147	4,59,284			
m	14,08,001	4,176	14,11,177	7,05,007	••	7.	P6,007	22,03,00		3,170	22,00,184			
	10,67,046	410	16,58,350	0,77,792	٠	1	77,792	20,35,73	1	410	26,30,148			
susonalioesil	2,65,486		2,53,485	17,803	•••	1	17,803	2,73,28	1	- 1	2,73,289			
Maintenanco	••		,		••	ļ]			- 1	2,10,289			
TOPAL 3	7,6,,876	3,733	37,63,604	10,02,074		-		Kn G > p -		.				
t, Carried Over 1,0	9,34,666			03,45,241		10,	02,674	50,02,550	1:	3,783	ō6,66,283			

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-10.

Birhind Canal Project.

'No. 2.—CAPITAL ACCOUNTIFOR AND TO UND OF 1916-10--(continued).

,				pince	r cha	nans.				2 0 0 1 m	-
		lupintat.			YTRINI	TIPN.		TOTAL	.,	n ne na mai in Mat 'ii	F 4: (3)
Heary of Account.										The state of	elisii Laciosador upen
	Presient	151543,	[Fetn],	Perroun	11219.	Tit	Printer	11-01	i i	200	
I WORKS (Centil) Brought over "	111. 1,03,51,64°	2'216 If.	16 1,63,50,911	lli. pr,51,516	110. D,:1	11», 63 45,171 ₁	in ancort	14 2 177	154. (62/57/932	I.a ;	10.
(4). Desirant and Pro- trouva Wouse A Prehe mary Expenses.	21		51	17		1:		;	25		·.
R Lord	Es hes	.,,	6.4000	48.444	· ;	12,211	amin'	. }	1,07,515		
C-Westa ••	0,5.4		កខាត់	1,76		1>5	8,164	,,, i	્વન	(-14
L.—Berthwork	6,21,272		1,31,332	1,21 900	!	42142.	5,57,161]	9,25,414		
O.—Mice-llancons		••		}	- į	,			<i>'</i> .		
PMaintenarco	2 * (2,122	3,425	ļ	1,47	175		47.,:		· •
Jatill	8,97, 11	, ,	1,9,4,1	4,7147.	. :	47137.6	Joseph State	!	77,127,1	j	*************************
TITAL L-WORKS	1 78 27,500	2,210	17 25021	1.379.2	1.27	12,14 140	,73,47 E97;	177	23 41,214	\$7 11 HH	1,3 - 6 1, 6 1
II.—ESTAPLISHMENT 5. Diagrics (1') 6. Particular]	1:1		.,.	- 1 at 1	[1 521		, ,	115	4,+
7. Meinear 1 8 Sizoial Stavet 1 81. Spenar Fiano Supper.	46,50,661	1-7	sc,races	21.25,417	;.6 _,	2~ 23,172	24 40,872	7 -	74,74,811	•••	• •
Lean and Pennical Action speed	885			t 10,175 t	*	6,47,182	<i>E</i> ,611,850	, ;	2 10,1%.		• •
Total	45,00,00	34.	41,800.5	277.11	**.	£" \$1,5 °	1 - 51,7 -1	7-	10 27 2	\$ 17 + 761	30 J 4h.
HL-TGOLS AND GANT GANT OF NAVIGATION PLANT GAIL REGIST AND ROLLING STORE											
12, Min errandors , 13 Hanales and Can- , bears	21,05,024	i				31 50 930	ao,rr sai	1.	52,9°,°23		
Lors of Exercises	117.2	·	3.40			161.44	17,20	<u> </u>	12 ().		
Total	21 04,361	,	21 67,314	10 01 123]]:	1201 -41	1,40 10.3		24,02652	23 10,557	\$1,67233
IV —SUSPENSE ACCOUNT.			_					į			
Frock	2,27,50	1	i	1		•••	2 27,70		2,51,720	•••	
14 Store Penerages		-90		. pt		-::		9 1			
16. Miscrelannous Ad-	1	2,121	2,557		-		7.01	i systel 	2,53:		
17. Losses Istores		1			"		\$0.5 \$11			, `	#** ***
Tetal	2,30,21	6 <mark>, 51,71</mark>	2 (4,52)			·	2,35,211	34 CES	2,34,657		
GRAND TOTAL	2,45 26 73	7, 57,111	2,15 - 1,14	1,12,55,560	1,17.	1,43,91,643	4,50,19,60	(e a . s. s	3,50,75 147	1,57,61,767	12.50 -0 144
VLE-S RECEIPTS ON CAPITAL ACCOUNT.			1,07,615			£5.69	1,76,120	ļ	1,76,128		
NET TOTAL APPORTIONMENT.	2,14,19,21	57,40	0 = 41,76,62°	1,43,21,257	1,15	1,43,23,450	1,57,10,17	58,650 	3,57,62,051	3,93,53,611	2,85,61,019
anow vortanial—45 cottoran ara, W.M.—45	2,14,10,21	57,10	2,44,76,626	1,43,21,05	1,17:	1,13,22,430	1,57,40,47	\$8,593	3,87,00,061	•••	
Institut.	11										
	1	1	1	J	1 .	1	<u></u>	1	1	1	1

jo). Share of accounts Establishment excluded from 1913.14 to 1917-18.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 19:8-19.

Sirhind Canal Project.

No. 3,-REVENUE ACCOUNT FOR AND TO END OF 1918-19.

		IMPERIAL.		Co	eraldatto:	۲,		TOTAL	
L'eoriers.	Pruvious.	1913 10.	TataL.	l sylom;	1015-10.	Total,	Pievious,	10139.	Total,
	R-,	R»,	P.	Its	Rs.	Re,	Its.	ıı.	Rs.
Occupiers' intes	7,68,53,492	51,75.010	7 6 ·. 07.±02	17,102	513	18,016	7,68,60,233	24,18,863	7,63,26,81
Sales of notice on an	4.75,760	27,157	12 3 ,78, 8	14,655	10	18,488	६,६१,६६१	25,107	4,70,75
inpply of town:	1,480	1,21,	ā.;ļ01			. :	1,459	1,21/	2,70
K-reipis from Plantations	4,96,694	37,9C1	3,73,56,2	2,38,631	10,402	2,53,029	7,38 241	63,303	7,90,63
Receipts from other Coust produc-	1,82,059	2,079	1'84'0\$8	1,03,595	,	1,00,000	2,60,851	2,070	2,01,32
Water power	20,63,762	1,92,234	21,05,271	a'ảo'aen	67,057	0 47,120	29,93,411	1,39,250	31,52,69
Navgatien Ho sipts	2,32,450	11'416	2,43,857	1,12,2:5	a,47.	1,81,768 6	\$,17,701	17,831	3,65,59
Rent of Buildings	1,24,736	5,670	1,50,415	81,575	- 1,705	53,173	1,76,114	7,474	1,83,58
Figure .coco	47,214	2,125	49,377	:10		5.0	47,780	2,13	40,50
Miscellar cous and other Receipts	14 04,020	77,123	1 ,52,019	44.RIO;	5,037	£0,91;	18,53,750	79,216	19,12,96
Total	4,12,21,676	27,71,316	160,50.06,8	13,24,906	<4,07	10,05,080	s,27,•6,5%	#8,60,80g	5,56 v1,97
Shero of Land Revenue collected in the Civil Leparament,	3,04,029	68 , 286	4,00,815			** '	3,94,029	•	4,02,51
Interest on sale proceeds of wasto just beneated:			 		•		•	,	,
Total Becker	K,16,15,705	25,00,801	H,44,85,501	15,24,906	84'01.	16,08,083	8,31,40,611	29,63,878	8,60,14,481

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Eirhind Canal Project.

No. 3-REVENUE ACCOUNT FOR AND TO END OF 1918-19,

		lurentat.		C.	יונטמנמצאט	:í.	aphyl Spraighta Philippillings a to	Total.	
Спанске	Pr viva.	1919 17,	Tulal	l'sorf mi	1915-19,	Tribal.	Previous.	1915-19.	Total.
The state of the s	1; 4,	J}{+,	Jt∗,	n,	lt∙.) _U ,	R•.][e,	R+,
(I), EXTENSIONS AND IMPROVEMENTS.		•						•	
(II- Ilran Works	2 21,376	Lett	2,22+31	1,24,201	1,103	የቋለመን	0,83,741	2,917	3,4x,26q
(2) Mais Camer, and Heabert	11,75,444	14,101		, ,	,0374,75%	#1,29,57 7	\$1,24,45;		82,17,324
43. Ibstriburanies	2,40,203	£5,59£	6,01,001	14,263	117	14,26-	5,10,000	. 1	8,78,823
(4) Deceases and Progressian Works	44,300	***	44,350	· · · }		22,220	es con		60,015
Total (I)	:1, 3:,600	61,15	2: 17,040	22,18,446	75165	21 91,10	13,51,21;	1,87,116	45,1 4,152
() -MAINTENANCE AND HERAIRS,				••• ,					
(I) -Herd Works	7,91,152	12,562	1,00,01	4.411	ሲዩን፥	. e^,≠5	13,71,671	15,571	12,*0 p9p
(2 -Megh Cenariand Brancon)	\$4,700,000	2,11,007	49 10 65.	37,746	1,20,421	** #4, \$1 .*	74,81,471	2,62,675	74,7731
parametenta	47 15,KTU	1,40,672	4-171-41	\$17		ş r•	47,17,257	1,54,972	44,17,5.4
(4)—Diamage Works	e 90,574	n,484	vitarion.	3,7*,70,	3,971	a 20 ,2 76	£,C1,F13	10 cc	6,17,316
Texal (2)	1,07,11,#13	4,412.50	1,11,70,000	35,45,281	1,53,65-	56,70,210	1,43,59 454	#.73,41°	1,45,32,238
G-COMTENSATION	35,331	17	36,50	13,117	ŀ	12,476	24,79-	26	40,524
(q-estàblishyent,									•
.1,- Direction and Account	12,17,740	<u>.</u>		301,921	i h	; }	17,05.63;		
2 Executive Establishment	81,59,988	1		10,00,812)		71,2U,RYC		
-Зе Минева Бэ,	1,59,947	6,58,200	1,20,29,841	80,100			2,49,507	\$ 6,56,903	
) - Revenue Do. (!)	67,72,499	}		12,66,0	1,07,463	28,88,365	A7,53,148	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,78,15,199
(4 - Navigation I)),	21,345	- 1		•••	}		21,311		
the stat and inners Attow- then 1.4 per dist of the 19070-0	••	j	••	3,60,30%	15,017		3,40,35 F	<i>]</i>	
Torat	1,23,01,650	5,63,30.	1,25,29,542	27,05,8.	1,22,60%	34,74,366	1,51,23,180	15105-051	1,54,18,198
Total danning over	2,52,45,002	10,93,257	2,03,70,18:	55,12,rg:	3,29,476	F8,72,437	3,37,67,661	14,20,762	9,6.,728

⁽a) Includes even range canonicing to its 70,635 during the year.

inter Rs. 2,48 on account of fees for collection at Revenue.

Share of account E tablishment under Imperial excluded from 1914-15 to 1917-15.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19. Sirhind Canal Project.

No. 3.-REVENUE ACCOUNT FOR AND TO END OF 1018-19.

		IMPERIAL		, Con	TP1BU110	x.		TOTAL.	
Charges.	Previous.	1918-49.	Totel.	Provious	1018-10.	Total	Provious.	1018-10.	Total.
	Rs.	Re.	Ri	R.	Ra	Rs.	Rs.	Rs.	Rs.
Total brought over	2,55,41,002	10,01,227	2 63,26,299	95,42 862	2,29,474	85,72,437	1,37,87,061	14,20,762	3,52 08,726
(a) lools and plant.						1			
(1) —Sciencific Instruments and Diseased Materials.	0,620	}		943	}		7,766) 	
(2)PLANT AND MALHINRRY	10,177			2,051	l j		12,528		
(3).—Tonta	11,710			2701	ĺ		14,413		
(4)Navio vitor	7,634			3,231			10,269		***
(5)Capp liquipage	11,113	\$ 9,000	5,27,304	8,873	6,274	2,05,556	23,016	7 15,343	7,33,860
16).—Jate Stock			••	**			••	1	
(7).—Office Functions	3,014	i		1,423			4,436	ì	
(8).—Repairs and Carriage	1,74,823			03,277			2,12,800	j	
Miscrellangua	2,00,510	j		1,12,781	j		4,03,291	;	
Total	5,18,235	0,000	F,27,301	2,00,282	6,274	2,06,566	7,18,517	16,343	7,33,860
(6).—REFUNDS OF REVENUE	80 541	2,048	82,620	6,779	, 80	6,800	87,323	2,118	89,438
(7)-PROPIT AND LOSS	372		• 172	87		87	457		457
(8).—BUSPENSE ACCOUNT	••	•					1.	•••	••
Mescricani ous Advances		••••		3,046	292	2,764	3,046	292	2,75
Бтоо к		••		17,169	1,272	18,440	17,168	1,272	18,440
STOCK SALES		••	·	177	-177	••	177	-177	
Frock Purchable			••	<i>,</i> ,		••			
Total Summane Accordi	:			20,391	803	71,194	20,391	801	21,104
Torat	2,58,14,1\$3	11,02,441	2,69,40,591	87,70,699	3 36,882	01,07,081	1,46,14,652	14,23,978	3,60,38,630
Indirect Charges debitable to Burenus As sunt as par Account No. 5.		81,512	18,20,347		***		17,08,835	81,512	18,20,347
,									
Total CHARGES	2,75,92,988	11,83,953	2,87,66,011	87,70,490	3,35,592	01,07,041	3,03,68,487	15,20,535	3,78,74,02;
Bandnee Set Reviewe	5,47,32,717	16,85,848	5,57,18,665	-72,45,693	2,13,503	-74,09,0 9	4/7,57,121	14,93,343	4,82,20,157
GRAND TOTAL	8.16, 15,705	28.69.801	8.41 86.606	15.24.906	64.077	10.08.063	31,10,011	19.53 878	8 60 01 40

OFFICE OF ACCOUNTANT-GENERAL ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Sirhind Canal Project.

No. 4.-INTEREST ACCOURT FOR AND TO END OF 1918-19.

	Aia est,		Anount.
Total Interest charges to end of 1017-14	10.	**************************************	Jt s.
Do, for the year 1916 10	444.81.51.51	* Du, during 1917 15	3,10 12 117 17,18 444
Total outlight rend of Morch 1919 + 2,11 17 025			
Zees half entlay during 1918 19 or 28,708 Mere Capital at Charge or 2,84,30,922			
Interest at A4914 per wat.	# F1,5%	•	
, Teru	374(1 11	ì •	
liajanos lievenus afterdisfraying luti est c'intgo	260,30 7es		
Total	6,87,18 bei	Tores.	# 47, £-, 505

No. 6, SACGOUNT OF INDICEOUS HORSE CLOB AND THESE OF 1919 16.

	l'avetacces,				l'e time	1018-10,	Testal.
Capital-	entenne suum muur sa teimigetämpäytentämpääntent	~		n. w	II.	3.4	F6
Capitalization of ababasement of La	d Recomme	••	••		ร อะเทเชล		7 2 4000
	(logs as:	,,,	••	41	F 62 (1/2)	en!	6,52,137
Lieve and Person All and ex-	" to mil to a		••	.,	P 41.127	32	£ 40,18
			Total	••	17,8:214	17	17,52411
Dolo I tenve and Pendon allowers chepres on translated to Assa	er deliked to Nasiva un Nobel trum caral	Brat .	e freatri s	a alize t	3,-6101	==	5,19,18
Tet delite ble to Imperial Count	.,	**	**	**	12,12,101	ε-]	12,1297
Brythus -				•	1		
Carl'alization of abstracast of Las	d R-rente	••	**	41	ارد: ۶	1,550	10,275
· · · · · · · · · · · · · · · · · · ·	(Insperial	**	••	••	17,-0,412	79,502	15,10,17
Leave and Prinsen Monences	" Centerbution	**	••	••	3,10,555	15,045	3,55,433
	•		Total	••	20,70,223	16 (3)	21,75,780
D dust Leave and Pen by allowers charges and transferred to Account	s deliced to Native n No. 3 of the sough	S.ates	treated as	direct	-3,40,385	13,016	3,85,133
Not Imperial Revenue	••	•••	••	• }	17,79,535	81,512	38,20,347

OFFICE OF ACCOUNTANT GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Sirhind Caust Project.

No. 6. STATEMENT COMPARING CHARGES TO DATE WITH SANCT ONED ESTIMATE. .

	Ì	F3 AG415BT BANCTIONS,		. Cuan	ENT SANCE	1088.	Totul charges		Revars	l.
Particulars.	Expond - ture against Constric- tion Estimate,	Fxpondi- lyro against opon canal americas.	Total	Charper to date	Amount of Sanction- ed Estimate,	Unapant Halance of Patimate,	to date against old and current sanctions.	Antho rity-	No. & date.	Amount
IMPERIAL. DIRECT CHARGES—	Ra.	lte. ·	Rs.	Rı.	Ra.	Ra.	Rs.	Scoy. I. B.	062 W.I.	Rs. 8,534
Works	1,56,33,67	18,65,022	1,75,22,595	7,626	71,642	64,016	1,74,30,221		1º 5-17	
Establishment	42,71,851	3,90,095	16,81,919	1,250	9,331	10,614	46,60,669	٠,	25.7-17	5,45G
Tools and Plant	21,52,851	26,321	21,08,175	219	650	431	21 08,39#		701 W.I	3,558
Euspenso Balances			••	2 84,859	••	2,84,859	2,44,859	G I	604 I 8-11-17	00,041
Total	2,10,58,881	23,01,336	2,42,02,719	2,01,124	81,020	-2,00,901	2,45,84,143	Secy. I. B.	1826W.] 25-4-18	
Lets Receipts on Capi- tal Account,	1,07,618		1,07,518				1,07,515		Total	51,623
Not Total	2,18,50,563	23,01,338	2,11,85,201	2,01,421	81,623	—2,0P,901	2,44,76,625			
Indirect Changra-										
Capitalized abate- ment of Land Revenue.	a,15,279	4,820	3,20,000			••	3,20,090		·	
Leave and Pension Allowances	8,37,501	64 G15	8,02,309	-170		179	8,02,130			
Total	11,52,973	50,435	12,12,408	-170	••	17D	12,12,220			
GRAND TOTAL	2,30,33,836	23,63,773	£ 53,97,600	2,01,245	81,623	2,00,622	2,50,88,654			V.
CONTRIBUTION.		•							- 11	
Works Establishment	03,00,025	4,48,181		913			08,18,149			
Tools and Plant	32,60,604	1,01,857		3,477		-	37,71,938			
Suspenso Balances	11,05,910	6,778	12,01,758	-220		220	12,61,538			- :
Total	1,38,81,000	5,55,810	1,43,87,42	4,200		4,200	1,43,91,62/			
Less Receipts on Capi- tal Account.	1100,00		68,008				68,008	·		
Net Total	1,37,63,001	5,65,816	1,43,18,817	4,200		-4,200	1,43,23,017			
GRAND TOTAL	3,67,06,637	20,10,580	3,97,10,426	2,05,445	81,623	-2,13,822	1,00,11,871			

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Chenab Canal Project

"No. 2 -- CAPITAL ACCOUNT FOR AND TO LAD OF 1915-10.

			1)	HET CHARTE		Cotalesia Francia	,
MEADS OF ACCOU	· V +.	l	Inj	*** 1		ar ethash-l	 Lugendituse usuditet ec
	-1,		Provi.ns.	1917-19,	Ti tal	Erstmate et vous un Plat March Plat 3	Retiram'en,
i –works,	بيده فرزيست		1:4	Ile,	lie,	, 11 MA NIT	
-Urap Woles		ļ	1	i			} !
AProlinguary Expenses			3:10	}	27(0		
BLand	••		(4,105 }		#4,165		
CNorth	••		61,70.253	271	*47*444		
K,—Hall lings	••		17 1-01		57,5-4		í I
ch-Alacellacents			12 25	•• ;	Chief		
PMaintenance	4.		1,0%704		1,6+2+1	,	
	Total		\$4 16 707	271	erico		т В
when Cares and Inches	4.000	}					Į.
APerliminary experses	***		1,21,21.		Lee yes		•
B-land	••		1,53,515	-2425			1
D.—Regulatora	••		11,10,550	. [1.0/0;- 11,16455		
EFalls and Wein	**		6,14,214		7,1%,544		:
P. (1),-Oder Cr.as Drafae			r,47,602 }		ስ ዓመረላነው የ		i
G.—Bridger			10,075.7	.,	Jn/n/cip		•
HLicipia			5,10 313		8,40.715		•
J.—Milli	••		73,0 10		22.0.0	1	İ
KPoildings	••		17,10,624	8,631 ;	13.1° 1°C		
L-Earthwork	••		77.19.015	2,67-	77.72.11	Ì	
Af.—Plantations	**		1,32,73:		1,38 754		j
OMierellamenne	••		2,91, 117 }	أ	3,004.57		}
P.—Maintenance	••		1,0%,27		3,05,647		7
	THEAL		1, 62 27 860	4,575	1 47,17,378		
3 Distribucturies						,	
A - Proliminary Lapones	•••		1,38,526		1,39,456		1
n-Land	••	•••	1,27,751	٧.	1,23,584	-	İ
C-Works	••		15,51,212	••	15 11 212]	
L Parthwork	••	,,	27,25,616	***	27,2-,510		
OMircellaneous	••		6,01,727	1,231	8,88,645		1
P.—Maintenance	••	••	21,570	••	31 570		}
•	TCTAL		54,15,037	1,231	64,41,266	1	

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

•			1	DIRECT CHARG	EB,	Cost of con- struction as	Expenditure
HEADS OF A	00DV x 7.			Imperial.		(Constructed (Construction Estimate	against olosed. Estimates.
. ,		•	Provious.	1918-19,	Total.	closed on 31st March 1900).	
6.—DBAINAGE AND PROTECTIVE	n Works—		Ds.	Rs.	Ra.	Rs.	Ra.
A.—Preliminary Expuesss	•	•• ••	19,771	1	19,771		
B Land	. •••	••	94,002		24,602		
C.—Works ···	••		47,446		47,448		
L-Earthwork	••		1,78,736		1,78,736		
O.—Bliscellancous	•	•• ••	37,550		37,550		
P.—Maintenanco	944	••	1,162		1,162		
j _e	To	TAL	3,09,267		3,00,267		
Total	al I.—Wor	289	2,\$5,66,602	5,577	2 58,72,179	2,61,94,721	2,54,57,87
II. ESTABLI	BBMENT.						
5. Direction	••		(a) 12,46,325	1			
6. Executive	•••	•==	35,27,201	1,709	(a) 48,37,469		•
7. MEDICAL	-	•••	52,178	ا			
8. SPECIAL BUNVEY	**						
St. Special Field Schony	***						
LEAVE AND PENSION ALLOWAN	ÇEB	••					
	To	TAL	48,35,761	1,708	48,37,469	40:02,022	40,37,40
MI. TOOLS AT	nd plant	•					
9. NAVIGATION PLANT	***	••		,	, 100	i i	
10. MILL PLANT	••	ws •			•••		
11. RAILWAY PLANT AND BODY	LING STOCK		. 15,000		15,000	ł	
12. MISCELLANEOUS	••		\$,23,737	87	5,23,794		
IS. RECAIRS AND CARRIAGE	,ma		1,02,398		1,02,328	,	`.
Loss by Exchange		**					
1	, To	TAL	6,41,065	57	5,41,12:	7,17,310	6,41,1:
IV. SUSPENSI	e accoun	r.					
14. STOCK	•••	, .	3,97,400	22,595	3,74,81	1	' '
15. , PORCHARES	**		-2,070	-13,968	-10,676		1
.15. (c) SALES	••	••	718	8,78	6,50	Ì	
16. MINCELLARBOUS ADVANCES	s ,	•••	15,122	868	15,00	լ	1
17. LORDON INVOICES	•••			1			
18. , Bronns	, 400 g		1	,			
, ,	To	TAĻ	4,10,500	_29,936	3,80,63	3	
	GRAND TO	TAL	3,17,63,997	-22,594	3,17,31,40	3,18,65,98	3,09,96,1
V.—LESS RECEIPTS ON	CAPITAL	ACCOUNT.	14,558	· · · · · ·	I 4,551	14,55	14,5
•	Ner To	TAE	3,17,30,439	-22,514	3,17,16,84	i,18,51,39	3,09,21,6
APPORTIO	nmeat.			1			
49.—IRBICATION WORKS	•••	** 1	3,17,25,029	-22,594	8,17,02,43	a a	
48M. W. AND NAVIGATION, 1	Impurial		1	••	16,410	0	1

⁽a). Excludes the c of Accounts Establishment sommonoing from 1912-13 to 1017-18.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Chough Canal Project

No. 3. REVENUE ACCOUNT FOR AND TO EXIL OF 1916 IS.

		IMPERIAL.		,	,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Internat	and the Salahan groups of
Recents.	Previous.	1915-10.	Total.	Cardar ,	Previous.	1014-13	Total
Consider the second second deciding below	1in	R1.	Rs	(P. EXTERNOLS AND IMPROVEMENT)	Ite.	Ra.	la
Decupint raise	14,00,28,252	h4,37,118	14,80,65,270	1-Hran Weren	17,72,807	11,752	17,91,693
				T,Blaze Canal and I rangush	15,21,496	42,877	ta 16 234
(Inpers' mice on impacts)	15,13,614	112	21,15 454	3,[Burerprenalies	16,25,845	,	,
lwat,		,,,	•	1Indiani and I'm tentian	1,91,542	2 4 4 2 7 	7,61 F74
Cal. of mater		£0.434	2,37,64*	loral ili	र वध्नवर गरन	1,4 197	\$1,17,517
Folice WADT	#,37,71· ¹	12,63*	4,45,084	di-Benther voll and a			
				Ladran Works and	27 23,721	3,64,727	21,1312
Supply of Icara	23,175° 1	2,220	27,478	2 "Pare Canac and Bras no"	94,371,327	4 27 52	Boige LEA
Assessing a second second	4 4			2 .1),4781787788788	45 12 134	3,5%,660	£1 150)7
Percipte Irom Plant- ntine,	2,04,813	29,427	7 34,635 1	4 natoadu & ingertius Nouve,	1.0 5.131	38,53	1,63 417
	Ì			· 77725 ') ···	: 11 13 5 1	· 6,67,2 3	12 77,123
Rength from ether Coroller	23,220	1,111	54 331	erimerent property of.	1,54 317	73	1,19,575
				(4 - 1.3734CF 11/1847).	-	,	
Mater bowes	163 te,760	je čse	3,37,240	# Tribumer in Andr Aperiment # Tribumert Therasisis—iment	. 12 p . 19 p . 2 2.2,2 4,77	nai te	1, 113
Navigation	***	212	31 :	7 - Vin teat. I'm	biga eta	; * < 32 * 37	57,t+ 142
į				Texas (5	144,71 474	33,24,7 ·	117,35,354
Ront of Buildiage	2,37,771	13,310	2,10,121	(CT OIS AND ILANT.			
Fines	इस्प्रदा	3,782	27,181	1. Sepaggi alphagi windo and fleghiou Maingratas. I offasht and Machinesa I, offo as	1,678° 13,617 1,517 1,251		
Manuflepecus mad ether	a,ra,heq	15,55	6,74,773	1—Norcosty of Prant foreamy 11, typesty 5	1,510 1,715, 7,71- 6,71,720	1	5,71,3 3 \$
Timas	14,74,449,7	82,41 695	15,0 4,25 231	rankarata or Fornacia a., frankarata o., frankarata frankarata or franka	\$ 64.65 84.073		
			1.10	Ratuyo See c.			1,61,129
Chiere of I and Revenue	£,19,50,12.	67,67,659	#,87,00,10L	Texa:	1,18,417	197,08 1 A	1.10,213
Di portinent	i	. [Trul	410,-, 563	22,10,259	3,57 61,271
Liter - curale promeds of verte lands beer fited	39,000	9,72 583	87,81,891-	Indirect of super distillable to Hores in Focunities or Account No. 5.	28,63 410	1,61,511	27,66,52
Tidal	5.05,12,201	75,40.181	6,74 95,25:	Total Charuns	434,57,443	23,70,001	4,54,35,450
1				Dalabes Wet Boxenus	18,15,025	140,40,071	17,7537,696
TOTAL RECEIVES	20,73,65,76	1 48 94 945	22,20,50,631	GRAND TOTAL	.0.73 08,75	14624,860	22 36,30 615

 ⁽a). Evel the share flactories Establishment convening from 1917-15 to 1917-14;
 (b). Include Tel 277-87 Sometimes to Lambardar, Jeep for citlestian of Telegraph.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Chenab Canal Project.
Fo 4-interest account for and to End of 1918-19.

•	Amount.				Amnugh.
Tutol Interest charges to end of 1917-18 Do. for the year 1915-19 Tutol nutlay to bad of 31-3 1919-Rs 3.17,10,46 Less hanf the nutlay during 1918-19 , —11,207 Mean Copital at charge , 3,17,28,142 Interest at 2 6818 per cont.		Not Rovenno ro De.	elized to said of l during l		Re 10,36,48,321 1,42,40,271
Total	2,55,10,552			1	
Balanca Rovenue afterdefraying interest charges	18,19,86,744				
Tatal	17,76,27,606	1	т-	. fat	17,78,97,496
No. &.—ACCOUNT OF	INDIRECT CHAI	ROES FOR AN	D TO ENU UP	1915-19.	
Padridulars,			Praviors.	1918-19,	Tutal.
	······································	···	Ra,	Re.	R•
Capitalization of abstement of Land Revenus Leave and Possion Allowances			1,02,244 6,79,888	230	1,02,344 6,77,127
•	7	Cotal	7,79,132	230	7,79,371 .
Reveron— Capitalization of abatement of Land Revenue Leave and Pangon Allowanees	,,		3,87 <i>5</i> 26,00,005	187 1,61,669	4,025 27,61,674
	7	nial	28,03,840	1418 4	27,65 600
CHARGET AG-1504 BLOSS SANGIONS Expenditure suite		TO DATE WIT	ns.	Foral, arges to	IMARKS.

		LAF-JAAI APOLUMA	RLOSKD	Cu	EFENT SARC	TIONS.	Total,	
. Paitgoreau.	Expenditure agreement construct on Estimate.	acarust	Total.	Cha-ina lo	Amount of Sanctioned Estimate.	Balance	charges to late against old and ourrent sanctions.	Rimares.
)infor Chaughs—	Rt.	lis	a Ha.	Re.	Rı	Rs.	Re.	Rs
Forks	1,80,23,002	55,34,371	2,5- :: 773	4,14,606	7,27,148	3,22,642	2,68,72,179	G. I. 530 I = 1,75,752
Estrblishment	36,40,096	11,07,403	48,37,460	•••	1,16,453	1,16,453	48,37,460	" = 1,72,701 16-3-14 609 I
Tools and Plant	5,02,825	48,297	F, \$1,122		. 76,188	76,188	0,41,122	$\frac{6.091}{6.414} = 2,25,338$
Inspense Balanses		••		2,80,G33	-,	-3,80,631	3,80,633	,; = 1,48,607 25-5-14 55 I
Intel	2,41,56,092	67,80,071	3,00,36,164	7,95,235	9,20,750	1,34,650	3,17,31,403 C.	01378W I. 01-0-15 3277 = 90,161
Loss Percepte on Ceptet A or unt	14,403	165	14,553				14,658	3-12-17 2281 3-12-17 3-12-17 3263
Nut Total	2,41,41,690	67,79,916	3,09,21,000	7,00,000	8,29,759	1,31,550	2,17,16,616	8 12 17 3279 = 10,638
Indirect Cuspons - Capitalized abatomout of Land Rosonia	. 92,059	10,185	1,02,214			_	i	8-12-17 9285 8-12-17 8-12-17 92, 5
Learn and Penrion Allow negers.	<i>5</i> ,02, 49 0	1,67,637	6,77,127		-		6,77,127	8-12 17 3102 102 = 13,514
Total	6,01,549	1,77,822	7,79,371	1-4			7,79,371	" 3-12-17 0,29,769
SHAND TON	17,40,230	60.57.738	31700977	7,95,230	0,29,789	1,31,850	3,21 10,210	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Sutlej Inundation Canals Project.

No. 2.—CAPITAL ACCOUNT I OR AND TO END UF ISIS-IS.

			D(1:	HOT CHARGE	:9	"net of constitue, fints he bow	
Urans or Accou	BT.			largetat.		etunuest (Cen- espurien 1. umate et eest	Paymoditure appunt closed X-tiranto,
			Presion.	1916-10,	Total,	ur. 31-t Varch 185-	
i,-works,	ەدىدىنى دەرىدىنىنىدىد د		Re,	Ile,	lis.	Rs,	Re.
2,-Mere Canal and Branchs ,1-Prohimmery Expenses	•••		43,645		3 F40		
R-1.4nd D-Regulators	••	-::1	30 612	::	30.51:		
E -Falls and Weire	••		62415		dint		
G Unders	••		2,20,492		57,462 \$ 20,653	i	
K -Ruffdings	***	- ::	5 82 628	:: 1	2,62,723		
O - V. wellerienes	•••		5.112	· · · j	5,112		
P: Majutennuer	***	••[2407	••	2,4*7		•
	Total		6,87,723		9,4 1723	11	407
f.—Thermirutalite			•				
A - Proliminary Expenses	••		1761		2,142		
Is s.and	••		(), ()		43.742	1	
CWorks	••		2712 11	***	ኝቱ ዓትን 3,ትን,3ናት	Í	[
L.—Haribwork O.—Mircellannics	• •	•	22.001		22,541		
21. — Materiananca	**	::	ire:		A,Cab		
	Toral		3,27,615	+10	3,28,612	***	
Tetal 1 -W	onic		13,76138	••	13,74,921	12,76,215	1270,535
te territoria te a successiva	44333					1	
II.—E°TAULISHI	HENT.				•		
# Diametion (2)			84 909	••	24575	1	
f Executive	• •		337.32	**	\$,37,376	i	i
7.—Madioal	••		1617	••	\$ (2,5)		! !
	Total		2,10212		2,02,212	2,51,212	3,92,21
III,—TOOLS AND I	PLANT,						ł į
P VINCELLINEOUS	••		24,573	••	24,873 114		
7 Ripaini and Cabriage	**	•••	21,6-7	.,	21,6-7	-	24,65
IVSUSPEKER AC	TOTAL	•*			·	-	
	-		20,100	5,531	16,500		
14 — Stock 14(2), —Stoc . Prichage a	•••	947-1	-1	-10	-11		1
E STOCK BALES	••	**	67	63	14		l
CMiscellaneog_ Advance	•	••			6 15	·	
	TOTAL	***	30,004	6,027	10,277		<u> </u>
GRAND	TOTAL.	••	17,16,438	_8,02;	17,11,411	16,05,134	10,95 13
V.—Len RECEIPTS ON CAP	ITAL ACCO	UNT.	176		150	150	10
NET TOTAL	••	••	17,16 252	- 8,027	17,11,256	18,03,078	11 1/2 17
APPOINTONM	ent.			٠.			
49Inmertion Weres			P,28,373	-1,057	9,21,345		
13M. W. AND NAVIOATION-			7,50,007		. 7,89,907		
*WOTTADITARY UMA ITE IN-	- (XUY IN C1).		1 1, 4, 744	••	,,	•	1

⁽a). Share of Accounts Delablishment excluded from 1912-17 to 1917-18.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Sutlej Inundation Canals Project.

No. 3.—REVENUE ACCOUNTS FOR AND TO END OF 1918-19.

		MPERIAL.		·		Imperial	•
Receives.	RECEIPTS.		Спанопе.	Provious,	1918-19.	Total.	
	Re.	Re.	Pa,		Rs.	Ro.	Rs.
Occupiers' mtos	02,77,072	5,41,047	98,19,610	(1) EXTENSIONS AND IMPROVEMENTS,			
•				(2)—Main Canal and Branches.	4,32,073	4,071	[′] 4,37,€44
Onnois' rajos on irrigated	17,732		17,782	(3)-Distributantes	1,88,420	5,675	1,04,101
(and	. 1			(4)-DRAIMAGE AND PRO-	1,158		1,159
Sa's a of Water	3,177	23	3,259	TOTAL (I)	6,22,257	10,440	6,32,903
,				2) —M A INT E NAN CE AND REPAIRS.			,
Receipts from Plantations	1,33,167	2,223	1,35,380	(1)—Head Works	10,870		10,379
	١			(2)—Wap: Canal and Branches,	51,48,073	1,45,080	52,93,103
Receipts from other Canal	70,819	617	70,030	(3)-Distributables	0,58,577	1R,003	9,77,180
l'anduce.				Total (2)	01,17,020	1,03 633	62,80,002
,	070.4			(3).—COMPENSATION	8,695		8,693
Rent of Buildings	272,8	1,200	9,502	(1)—ESTABLISHMENT.			
Figer -	2,25,466	205	2,25,971	(8)— Direction and Account. (6). — Executive Establishment. (7).—MicrocaliEstablish-		1,18,910	82,42,161
				HEST. 7 (A. —REVENUE ESTAB-	14,35,550	63,056	14,98 617
Miner Huncour and other	30,636	6,472	· 46,108	LIBINENT. TOTAL	45,84,624		47,10,7#8
•				(5).—TOOLS & PLANT.	1		,
Contribution	23,836		22,835	(1).—Aciontific lessons.	.721		•
				(2 PLANTS AND MACHIN-	"		
Total	08,04,466	5,52,936	1,03,57,402	(3)Toots (4)Navigation Plant.	1,057		,
				(6).—CAMP EQUITAGE	016 } 177	8,246	20,607
				(0) Live Stock]	
hare of Land Rivenue collected in the Urvil	79,50,807	2,77, 052	82,27,869	(7),-Office Fernispre.	001		
Department.				(6) REPAIRS AND CARE	27,091		,
nerest on exe-proceeds.	. 05,527	11,008	1,08,025	MINOCLLANKOUH	48,209).		
of weste initia benefited.				Torat	77,361	3,240	80,607
	_]	(0).—REFUNDS OF REVENUE.	25,606	177	25,983
				7.—PROFIT AND LOSS	970		, 370
,				TOTAL	1,14,10,381	3,59,070	1,17,70,027
Total	80,40,834	2,88,100	80,11,486	Indirect Charges debitable to Revenue Account as per Account No. 5.	7,00,175	10,898	7,26,073
				" TOTAL CHARODO	1,21,19,020	3,70,674	1,24,06,100
				Belance, Net Rovengo	57,31, 274		61,05,786
TOTAL RECEIPTS	1,78,50,800	8,41,080	1,86,01,880	GRAND TOTAL	1,78,50,800	-	1,80,91,680

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

. Upper Sutlej Inundation Canals Project.

No. 4,-INTEREST ACCOUNT FOR AND TO END OF 1018-10.

	Amount.		Amna-t.
PRODUCTION OF THE PROPERTY AND PROPERTY OF THE	R.		Ita,
Total Interest elections to end of 1917-18	22,42,515	Not Becompe scales to endet 1917-19	E7,71,576
Dec. for the year 1914-19 Re Re Re Re Tat cl outley to 31st March 1910 17,11,783 Less ball outley during 1918-19 —2714		during 1915-19	4,41,711
Monn Capital at rings 17,12,500			i
Interest at Re. 3 self-per cent	22,770		
Total luterest charges	23 42 644	•	
Balanco Revonua etase defengino luterest chasore	74,52,211		
Tetal	6181,756	Total	51,55 796

No. 8,-ACCOUNT OF INDIRECT CHARGES FOR AND TO UND OF 1918-19.

Par 1791th T	Press vis.	into te	Tarks.		
Capitag. Capita	***	:	150 25 055 437 15	Ha,	1.0 823 43-10
	Telef	•• [iorest ;	**	1, 11,631
Runnes,			1	:	
Confictionality of alterent of Lord Regroups Francist Power Situation	••		19 479 1,5 702	10/12	7,13,570
	Telal		7,00,171	1071.	7,75,673

No. 6.-STATEMENT COMPARING CHARGES TO DATE WITH CARCTIONED PRIMATE.

	Chars	24 4045 62 545/1214 146	एर १०४०	('s ar	ernt Pad	ertosr.	17 (86) 22 47 30	
Partisveads,	Type hit type classes type Construct type Construct A, as at type comparation of the construction of the c		Total	".b"Zre In ilaîn	Amount of 2 and Unagent tions I Balance Fate Lasto.		ciare nesimer cità multimitraci excettiones	HETALFS.
Diebut Chargus	ns.	Ika.	Re.	Ile.	RA.	Re.	Re.	
Works Fatablishment Tools and Plant Suspense Salance	10,07,761 640,155 810,05	3,69,174 70,493 4,616	7,77,735 7,77,717 76,717	17,577	p44 4.4 pae	.: #*:7:	12,76, 239 2,26,212 24,647 18,577	i ·
Total	12,00,053	4,13,246	1016124	11,277		-12,277	11,11,111	1
Less Receipts on Car.tel Account	161.	,.	166	••	4		150	i i
. Ret Total	12,12,432	4,42,715	10, 96,658	10,077	-41	-15 277	15,11,558	
I morror Charger — Capitalized abstement of Land Revenue.	83,651	4,352	85,033	,.	, ~	44.)	£4,03 3	
Leave and Pension Allowances	33,118	64.460	40,008	••			807,54	
Total	81.657	14,212	1,03,541	*"	••		1,01,041	1
GRAND TOTAL	17,29,201	7,: 2,753	17,07,019	18,277		-15,277	18,12,290	i t

, OFFICE OF ACCOUNTANT-GENERAD. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Sidhnai Canal Project.

No. 2—CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

	•	D	IRECT CPARGES		Cost of construction as	
Head of Account.	i		Imperial.		now estimated (Construction Estimate	Expenditúra again-t clasec Estimatos.
		Proviose,	1019-10.	Total.	closed on 21st March 1892.)	Letinates.
i.—Works.						
. Hran Works-		Ra.	Ra,	Rø.		
A,Preliminary Expenses	••	124	••	754	1	
B.—Land	••	326	***	288		
C.—Works	••	2,46,280	***	9,46,26 0		
K—Building	••	11,648		11,646		,
o.—Minoplianous	••		***	291		·
Te	ital	2,59,286		2,89,286		
. Main Canal and Bhanonds-						
4.—Preliminary Expenses	••	4,014	**	4,014		
B—band	••	22,422	7**	29,422		
D.—Regulatoro	••	49,553	**	49,508		
G.—Bridges		44,080	**	44,950		
KPuildings		60,780	••	n0,780		
i Carthwork	••	2,58,995	***	2,50,000		
M —Plantations	••	621	•••	671		
O.—Miscellanezus	••	427	.	427		
P.—Maintenan∞	••	8,394	***	8,09 <u>1</u>		
	TAT, as	4,57,411		4,67,411		
Intributaries—				. 0.00		
. A.—Proliminary Expeases	***	3,905	•••	8,065		
B-Land		11,387	, ""	11,387		
CWorks	•41	68,623	***	66,822		
L.—Earthwork	••	1,06,784	***	1,20,784	5) 	
O.—Miscollaneous	••	165	***	105		
TOTAL.	*44	2.18,028	***	2,16,023		

OFFICE OF ACCOUNTANT-GENERAL.. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-10.

Sidhnai Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1918-19

		1	DINECT CHARON		Cost of con-	
HEAD OF ACCOUNT			Imperal.		row netimated {C sutract on Letimate	Expenditure apainst closes Estimate
		Previous.	1018.10	T. tal.	ther ten flet There in 1829,	; ************************************
and the and companying security of the second second security of the second security of the second security of the second second second second security of the second		Re	Ra.	No.	Its.	Tie.
4. DRAINAGE AND PROFESSION WORKS-	- ••	\$6	4-	\$5.		
Toru	••	70	•••	***************************************		
Terat I—Works	••	0,81,727		2 65,73.5	Pies roc	9,41,170
H-PSTABLISHMENT,						
8 Descrica	••	(5) 76'8 -5	••	{11 4 7,\$75		
7 Margarian	••	321,561	- i	231,725		,
Tetal		2,(4,713		2,F2,54*	£, 42,3	20100
HI =TOOLS AND PLANT.				***************************************		
12. Precettanners	•	1000		:+63	:	:
Total	•	7(17)	***	2 1 3	"and file a	34 ().
IV — "URI ENFE ACCOUNT.						Section Constitution is seen
14. Exoca Primiters		-cn ;	-14"			, ,
IF : STORE SALFE		£	-42 +	4 114		
In Misceptaneors Assances		1.12 (-623	4: -		•
17. Stock		£'12- j	- t- 1	4-3-12		
Totac	•-	44,2/ E	1,32 ;	15,51.5		
GRAND TOTAL		10 40 000.	-1,733	101 (72	k: 47,978	15 42'63*
V-LESS RECEIVES ON CA ACCOUNT.	PITAI.	228		EST	121	£24
der Total	.	12,92,002	-1,5:3	12,20 / 1/	12.17.716	13 47.714
APPOUT IORMINT.		, (. !		}	
40 Indication Works		12,73,008	1,553 ;	12,72,143		
13 M. W. and Navidation————————————————————————————————————		15,504	:	18.30n	-	•

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Sidhnai Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1918-19.

	1	MPERIAL				MPERIAL.	
Виспитв.	Provinus.	1918 19	Total.	Charges.	Provious.	1918-19.	Total
	Rt.	li e.	R1.	I.—EXTENSIONS AND IMPROVEMENTS.	Rs.	Rs. 1,581	Ra. 33,848
Occupiets' rates	1,00,25,039	5,05,034	1,00,31,0•3	1.—Hrad Wouks 2.—Main Canal and	32,267 1,77,991	1,759	1,70,770
Owners' rates	٠,,	46	46	BRANCHER.	86,117	5,473	91,500
Sales of water	45,081	514	45,225	DRAINAGE AND PRO-	ភ កខ		208
				TOTAL 1	2,96,893	8,833	3,07,710
Receipts from Piansasions	6,535	1 600	8,161	2.—MAIRTENANCE AND REPAIRS.	•		
recorder from 7 immersions	0,030	1,625	9,101	1 HWAD WORKS	3,51,620	7,947	2,52,567
`				2.—Main Canal and Branches,	9,62,393	20,233	9,82,620
Receipts from other Canal	9,512	250	9,762	3.—Dirthibutanies	8,42,487	12 255	5,54,712 18,9,,903
hroques.			,	TOTALI B	18,56,470	30 43.7	231
		1		3.—COMPENSATION	231	"	
Rent of Balldings	19,170	285	19,437	4.—ESTABLISHMENT. 5.—General Estiblish- EENT INCLUDING DIREC- WION AND AGGOUNT.	(0)1,54,944	20,147	10,05,335
					8,63,771 20,473	11 20,121	10,00,000
Pinne	8 421	461	8,862	G —Ruvenun Establish- ment.	6,72,742	(a) 14,232	0,86,574
				Тотла	17,11,030	40,370	17,52,300
Mercellaneous and other	16,311	1,856	17,807	5.—TOOLS AND PLANT	 		. ,
Recorpts.				1,-Solentiylo lestru. MENTS AND DRAWING MATERIALS.	1,446]	
				2 —PLANT AND MACHINDRY	201		
Total	1,01,31 079	8,09,556	1,07 40,653	}	378		
•		}		4 NAVIOLTION PLANT	1,683 264	488	60,086
,				C.—Cam' Equipana	<i>.</i> .	1)	
Share of land Revenue contoted in the Creil	18,65,127	1.78.471	20.13.508	7Oppien Furniture	917		
Doj artment		.,	20,27,01	8.—Ripains and Cabriage	33,752		
				12.—Miscullaprods	20,867	<u> </u>	
		:1	}	Total	59,598	488	80,086
Interest on sale-proceeds on waste lands benefited.	3,03,013	23,022	3,87,535	6.—REPUNDS OF REVENUE.	2,305	25	2,330
	. '.	٠.	·.	TOTAL	39,27,117	00,160	40 17, 177
. Total		0.02		Indirect Charges debit- shie to Revenue Account	2,89,955	5,653	2,45,668
	22,28,740	2.02,303	24,81,103	as per Account No. 5.		05 510	42,68 183
10101			ļ	Tomas Perinama	1 41.67.772	95,813	**********
Total Receipts	1,23,60,818	9.11-018	1,31,71,760	TOTAL CHARGES Balanco, Not Revenue	41,67,372 81,02,446	7,16,1:0	80,08,5-1

⁽a). Includes Re. 1,014 on account of fees for collection of Revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Sichnal Canal Project

No. 4. ANTEREST ACCOUNT FOR AND TO END OF 1918 19.

~		Ammet	; 	Ament L
Total Interest electrica le cad el 1917-18. D. f. ribe yene listedio. Total en ay up to 3 let March luft. Les hair entire direct. 1818-19.		114. 13,72 + 54	Net Resemption and to end of 1975.24 Do. during 1975.29	11.2.17 11.2.17
M: it Capitot at et appa Latorest at Mala per conti Trial	32,01,221	44 951 14,17,542		
Palai co llevenue after defraying interest s' Tord	1	134241779 13474841	Total	. (140-5-1

No. 1. ACCOUNT OF INDIRUCT CHARGES FOR AND TO THE OF 1915 IV.

Partice tare,				•	Parti at	1818-14,	Set.,
Carry -			~			~ • ***********************************	
Capitali-ations I abatement of Land Deveron	··· .	***	-		3,275	**	7 729
Jesse and Petrica Allowances	•••	••	**	••	311 > 67 (\$4,505
			Tital	••	41,2 8		11 225
Rivere-				1,	. سیبی جسسی ا		
Engitalization of ababin and of Low L. Povonia	••	***	***	, 1	2.85		233
Leave and Pension at oversers	**	**	••	•• .	27116	201	2473 1
4			To tall		2,21,11	3,000	. C (, . 3
		Gree	Torat	•	28.743		2,85 313

THE CHITATUSE OF COMPARING CHARGES TO DATE WITH SANCTIONED PRICEATE.

	HAP-SP. A.	182517 (C) 721171	madi dane	E etgs	erat yesic:	rey.	Tribal Control to	
Pati'cu'are	Papendie, ture ! apressi : ter core ter	11170	T-(a)	Charme Lodeino	tpo ne i e Sara. isene. K-sires-	* in spend to summer of to to to to	ALGE	FIFFARE L
DESCRIPTION -		į				}		
Werks	101201	2.44,412	1,48 615	***			0,45.250	
Hetal lithment	2 - 1,1-12	F9,446	0,74,710	***	***		7,64,213	
Tools and Plant .	22,251	13,70€	25,031	, ***		·	\$6,729	•
basper so Balance .	.]	400		(7,773	! ! •··	12,725	40,020	
Teras .	9,5 4 264	3,19,-74	12,47,935	10,778		-42,535	1274,572	
Less Receipts on Copital Acceptant,	- 134	4 •	221		j		214	•
NAT TOTAL	9.28 6.36		12,45,714	42,758		- 12,735	12,90,440	
Interpret Courses -					,	:		
Capitalized abatement of Lanc. Revenue	2,51:4	534	3,52	··· 、			3 228	<i>;</i>
L ave and Pension Aller and ".	25,576	8,221	86,5H7	***	'		36,632	
1 Toru.	31,570	P. 114.5	49,223	:"		j `	49,225	
Grend Toric	4,50,669	4,24,293	12,87,939	47,735		-12,735	13,70,674	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Jheium Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

,				ומ	RECT CHARGES				
. Нидра	or Acoo	unt.			Imperial.		Cost of construction	Expendicure	
				Provious,	1018-19.	Total,	as now estimated	Estimate.	
1	-WORK	:8,							
J.—Head Works—					`]				
T. T. Z. T. VI VALUE				Rı	Rs.	Re.	Re.	Rg.	
AProliminary E	zpenses	••		12,619	••• {	12,619			
BLand	••	••	••	31,772	··· ,	31,772		}	
adro'//)	•	••	•••	21,80,792	43,314	32,21,706	•		
KBaddings	••	1	••	1,34,042	12,746	1,47,687		1	
O,Mis ollaneous	••		••	19,273		19,273		1	
P.—Maintenance		••		28,020	101	28,020			
		TOTAL		31,07,018	51,059	24,61,077			
1-Main Canal and B	RANGER	:	1				•		
A —Proliminary II:	.			22,083	55	93,738		1	
BLand.	rheuses	••		2 (9,781		2,49,781		ļ	
D - Regulators	••	**	"	2,71,296	1,59,014	4,40,300			
L Talle and Wei	••	••	"			2,34,947		1	
		11 17*aulu		2,31,947	••				
F, -(1)-Other Cr O-Bridges	ORB 137m		•	1,20,258	••	1,20,258			
-	••	••		6,01,251	-	6,91,284			
II —Escapes	***	416		4,78,840	- [4,78,640			
J.—Mills	***	41*		1,07,620		1,07,620			
K Buildings	••	••	1	10,17,620	7,072	10,54,701			
L -Carlitwork	••	* • •	"]	22,03,007	12,503	23,05,670			
N Plantations	***	••	**	80,179	-	86,179			
OMiscolimnous	4.			€5,€57	- [46,687		}	
P.—Maintenanos	***	••	"	32,372		22,372			
		Total		K7,83,014	1,68,703	50,11,718	\\		
Dibirthutanies-			1		.	ì		•	
A.—Prolimmary E	Eğilisə e	-		61,101	•••	61,101			
BLand '	401	***]	1, 16,934	2,870	1,47,812			
CWirks	***	P4		15,46,649	0,277	15,52,826			
L-Earthwork	••	••		13,52,563	21,710	13,71,003			
0 -Miscellineous	***	***		5,50,204	1,055	5,2.,140	. 1		
P,laintenance	***	b-a		1,603		4,663			
		Total		36,71,013	20,511	37,00,531			

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19:

Lower Jholum Canal Project.

NO. 2. CAPITAL ACCOUNTS LOBAND TO ESTO OF 1915 ID.

					£15	int ou Charles	1		
1700		de 1125m			'	Imports.		Caperdien Caperdien	tions of
ДР	ny er A	¢ 1.M.P.			Persions	1911-19.	Tetal	e. 40 1, Latitudian, 4	isa 3; ++ e=13th st 4 चै
		·	***************************************		180	ا مالا ا العالم	22e,	r.	Ita,
Thaireod and Posts	Crive II	'(axe—							
A Prolingbury Fxp	· E ; 9879	•••	44+		23,215 }	••	\$1,2.		
R Leu 1	•••	**		••	17,678	••	12.00		
CWorks		**	••		7,5k6	••	1,511		
/ Earthwork		***	***	••	#7777	••	£3,345		
O.—Mircellancors	~	-	-	••	1,117	••	1,75 •		•
			Triat '	••	9. , 11		7. VB •	1.4	American designation opposite
	Ter	42 I - 11 :	811116	••	1,7 - 1, 2 - 7	53314	171,-774.	,1,47,57,538	
11 15	STABLIS	REENT,				,			,
C Presenten					general)				
Carel'-17B	•	••	••	••	17.52.510	(0)			
	-	•	** 4	••	2// 43	1,17,5.0	22,27,477		
fixelet Sirex	-	***	-1	••	421-7		:		
	_	64	**	•		, ,			
			Tryan	-	14,01,6	1,12 - 4	115,17	. ".,,,	28 5 181 5
iu 70	00L\$ A	NO FLAN	ε.					Ì	į
O Navidation I cour		-11							į
lt "tierz: rangers		-		,,	371714	1640	: ` :::::::::::::::::::::::::::::::::::	İ	
li —Beraira and Carli	402		••		£2,210				
			Tota:	••	3 1,720	11.10	7,77,744	236,745	
11913	SSIT EST	Accor.	\$,				1 1		
		74.1	· • •		!	i]			
14 Cerre	••	••	***	*'	5,53,539	1	\$,77,773		
H.—Brek Pracusare		-	~	••	- 7,22%		•		1
1 o Pares	***	**	••	••	1,331	1			
16 — Misterfankon - Al- 18. – Lost da Stobb.	/ 1. C.4	•••	••	••	4 67.2	1		1	ļ
7,	***	•••	••	••			•	1	
			T. TAL	••	2,93,479	30,140	6,10.928		
		GRAND'		4.	1,00,00,270	4,55211	-1, (3,71,1	1,54,01,57	14,00,00,00
vLess recei.	rs on c	APIFAL	ACCOUNT	••	es'(a)	<u> </u>	62,659	68,693	6 33 9
	-	Her	Tores	**	1 55,00,070	1:1:11	17.27.5851	1,33,39,5;0	1,6 ,. 2,31
AF	tortio	nmi ne.]	1	
49,Industroa Wones					1,54,32,67	ì	107,63,481	l	l

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Jhelum Canal Project.

No 3-REVENUE ACCOUNT FOR AND TO END OF 1918-19.

	1	IMPERIAL.				INPERIAL.	
RECI II TS	Previous.	1918 19	Tolal.	Charges.	Previous.	1918-19.	Total.
Occupiers' roles	Rq (2,8),53,441	R5. 20,17,774	R4. 3,15,71,215	1 EXTENSIONS AND IMPROVEMENTS.	184	R _b .	Rs.
Sales of eveter	1,18,047	10,594	1,28,631	1. HEAD WORKS 2. MAIN CANAL AND BRANCHIR.	4,52,427 2,00,242	35,379 6,674	4,87,805 2,06,916
Supply of towns	5,650	967	6 526	3. DISTRIBUTARIES 4. DEATHAGE AND PRO	2,53.39 <i>2</i> 8,290	10,479 1,341	2,93,871 0,631
Receipts from Planlations	36.57 t	6,315	43,386	TEGTIVE WORKS. TOTAL 1	9,44,351	53,873	0,98,224
Receipts from other Canal produce.	10,907	629	11,736	2.—MAINIENANCE AND RUPAIRS. 1. HEAD WORKS 2. MAIN CANAL AND	8,11, 4 74 20,91,925	45,871 1,03,209	8,57,345 21,95,134
Water power	2,11,559	31,158	2,43,017	BEANGERS, 3. DISTRIBUTAPIES.	19,04,272	1,14,251	20,18,523
Rent of Buildings	99,063	6,071	1,05,134	i. Drainage and Pro- tective Works	72,190	1,283	73,473
•				TOTAL 2	48,79.861	2,61,614	51,44,475
Fines	11,707	622	12,320	3COMPENSATION. 4ESTABLISHMENT 5DIRICTION AND AC-	5,847 6,58,464	332	6,179
Miscellaneous and other Receipts.	1,24,415	8,431	1,32,854	6. Cyrcolian Eriyr. Filhnial	23,74,303	(b) (4,52,900)	(c) 61,23,263
			<u>`</u>	7. Medical Do. 7A.—Revixue Do.	1,42 725 25,87,871		,
Total	2,95,71,569	26,83,059	3,22,51,62h	Total	56,60,363	4,62,900	61,23,263
Share of Land Revenue collected in the Crift	1,11,33,273	15,22,709	1,26,57,952	5.—TOOLS IND PLANT 1. SCIENTIFIC INSTRE- MENTS AND DRAW- ING MATELIALE, 2. PLANTS AND MACHIN ERY 3. TOOLS	5,123 39,798 5,787		
Department. Interest on sale proceeds of syaste lands benefited.	7,89,161	71,478	8,00,67	4. NAVIGATION PLANTS 5. CAMP EQUIPAGE 6. LAVE STOCK	1,000 268 5.34 6,556 51,691 93,524		2,18,036
				TOTAL	2,04,340	13,000	2,18,036
,	,			6.—REFUNDS OF REVENUE 7.—PROFIT AND LOSS	10,470	140	10,610
į				`Тотец	1,17,05,238	7,95,549	.1,25,00,787
. ; :				Indirect Charges debilable to Revenue Account 25 per Account No. 5	7,91,320	64,806	8,58,132
Total	1,19,22,434	15,94,182	1,35,16,616		1,21,98,561	8,60,355	1,33,58,919
				Balance Nel Revenue	2,89,95,139	31,16,890	3,24,12,325
TOTAL RICIIPTS	4,14,91,00\$	12,77,241	4,57,71,244	GRAND TOTAL	4,14,94,003	42,77,211	4,57,71,311

⁽b) Includes Rs. 71,921, on account of fees for Collection of Revenue.

OFFICE OF ACCOUNTANT GENERAL, ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19,

Lower Jhelum Canal Project.

	Amount.	AND TO END OF 1915-19.	Amount,
Total Interest charges to end of 1:17:18	Ita.	Not Recenue realized to end of 1917	Ti.,
Do. for the year 1916-10		Do, duing 1914.	1
Total outlay to end of that Parch Dilverks. 1/25/8/8	-1		a) por
Deduct outlay during 1918-19	13.		[
Mean Capit I at charge 60 p. 140 503) 1 1
Interest at 3.4515%	B CL NE		;
Third .	9167,610		;
Balance Ravenus alter defrazine interest et arges	25144. 5		; \$
Ta'al	3 22175,2,	Total	3,75,12 (2)
No. 2ACCOUNT OF INDIREC	T CHAMMES	for ASD TO I NO OF B 1849,	
l'a tirelar,		Previo + 16117.	Total.

l'a ficelare,			Previous ;	16115.	Total,
`A *{T&L		-	Re,	P.,	3 ₁₄ ,
Capitalization of abatement of Land Bovenue	**	•••	} !	•••	×2,009
Laste and Pensine Allow-new	••	••	3,197,455	36,236	3,25,698
	Tetal	••	2,03,630	ar 230	\$\te,u\te\$
nerius-				<u>.</u> !	
Capitalization of abatement of Land Revenue	**	•••	572		574
Leave and Pension Allo-ances	***	5 00	- 7,90,451	64,-0	#,67,237
	Total	••	7,03,336	64,*01	£,55,132
·	Aparo Total		11,85,786	61,04:	12,06,830

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Jhelum Canal Project.

No. 0.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

	CHARG	teriada es Shultorab		Cers	LFAT SANCT	י,פאסוי	Total charges		
Pantioulans.	Expenditure against Construo tion Estimate.	Expendi- ture against ipen canal sanctions,	Total.	Charges to date.	Amount of Sanction- ed Estimate.	Balance of	tn dato against old und current sanctions.	R:	emarks.
Dirfct Charges,	Ra.	Ra.	Rs.	Rs.	Re _a	Rq.	Re,	Secretary's No	1088 27-3 19 1086 27-3-19 16,714
Works	1,20,74,493	25,280	1,26,99,773	4 ,0 5,696	6,14,433	1,18,637	1,81,95,269	31 31 61 19	1742 11-5.18 1150 1V.1 0 4 18 15,928
Establishment	21,00,956	1,35,850	23,26,408	••	1,32,787	1,32,757	23,26,408	31 T	1728 W.1, 10-5-18 0141 W.1, 31-5 16
Tools and Plant	3,62,956	12,832	3,75,788	••	9,036	0,030	3,78,768	» "	0123 W.I. 25,228 29-5-18 061 W.I. 35,750
Suspense Balances				4,83,028		4,33,928	4,33,926	99 91 91 13	20-5-18 1039 W.I. 0,846
Total	1,52,28,307	1,73,662	1,84,01,060	9,20,621	7,86,226	1,73,205	1,63,31,490	61 26 35 3 ²	0440 W.l. 3-7-18 1181 W. I. 19-9-18 2552 W.l. 8-815
Less Receipts on Capital Account.	62,609	,,,	62,509	••	•••	••	62,609	" " Govi. _O l India Secretary's	2554 W. I. 2554 W. I. 27-11-18 3421 9 12-18 237 W.I. 15 1 1P 504 W I
Nel Total	1,81,08,698	1,73,662	(a) 1,53,39,300	9,29,521	7,56,226	-1,73,2 90	1,62,68,881	1) 71	7-2-17 807 W.1. 6-7-19 1049 W I 22 3-10 1049 W I
INDERFOR CHARGES, Capitalized abatement of Land Revenue,	83,000	,	83,000	,			83,000	ls. No.	1047 W.1. 22 3-10 073 W.1 1-10-17 2940 95,165
Leave and Pension Allowacces,	3,06,721	18,977	3,25,099	, .			3,23,698	10	13-11-17 2936 13-11-17 3013 17-11-17 245
		-						. "	18-1-18 301
Total	3,89,721	18,977	(6) ≰,08,698		.,,	•••	4,08,098	,,	6-2-18 5-78
Grand Total	1,55,55,41	1,92,030	1,67,48,058	9,29,52	7,58,221	-1,73,29	1,06,77,579		11:2-18 5×2 11:2-18 807 4-3-18

⁽a) Includes Rs. 2,05,833 actual direct Expenditure on Shahpur Imperial Canal-

⁽b) Includes Rs 998 on account of indirect Expenditure on Shahplir Imperial Canal-

Both the above will be transferred to the debit of this project Canal on completion of the Shalipur branch of the Lower Inclum Canal, vids Secy, 8 P.W.D Branch, No. 085 A. I. dated 7th June 1905.

⁽c) Ravised project estimate senctioned in Secy. of State's despatch No. 5, dated 10-2-1805.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-10.

Indus Inundation Genals Project.

No. 3-CAPITAL ACCOUNT FOR AND TO END OF 1918 19.

				12s	escy t'agsgri	•		
Heatin or i	A n erst	۳۲،			Interest.	/ A T =	('a t of erne eterrition an new partnessed (construction)]] epopuliture
				tresions "]n[=10.	7/1-1,	Helipsete chard in Hat Merch 1474).	l'eturates.
Separate Separate Separate Separates	,			Its,	R+	ila.	tra,	R.
1-70	11:159				* *		•	
.—Mers Caras and Uni			1		;			•
a.—Preliminary Exp	-134P4			9,21 8	., ;	6,201	,	!
Desired	***	***		:31:3	••	#2,R	,	,)
D Iterulators	•41	14		na en	••	77,5%		, 1
EPalls and Weirs		•••		56,624		1,1131		1 1 1
F Rores and Hill Te	otter l	Westa		405		10.		7 2 2
a Itilem	••	••	_	45,531		ଶ ମ ହେଅ		,
H.—Recapes	•••	***		11021	••	11651		` t
K.—Belllings		•		\$,47,000;	'	1,0%(-)		<u> </u>
L-Fariliment	•••	***		15.72557	•• ,	12,5;,* *.		:
O.—Myerlines un	•••	***		\$4,7 K.	**	21,54		î 1
					;			}
		Total	,,,	1; +2 (5)	****	, 125,140		
3. Distributables—								i
A.—Prelationary Ex-	Let. e	***	31	\$,047	4.0	21.		
nLand		404	A	26.13	1.	; . 54,1:'		-
· C.—Werks	•••	•••	••	20 1 jz	531	6,04		Angele de la companya
LEarthwerk		**	•••	1,45,143	••	1,15 14		
O Miscellancous	••	***		8 831	••	15,67	, I	
								
		Toral.	•••	7,15,211	7:1	3.11,00		1

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Indus Inundation Canals Project,

No. 2-CAPITAL ACCOUNT FOR AND TO END OF 1918 18.

					E	DIRECT PHAROPS	3.			
	_					Imperial		Cost of con- struction as now estimated	Expenditure	
	Heads of	Accoun	7.		Provious,	1918-19.	Total.	(Construction estimate closed on 3ist March 1894)	Estimate.	
4 11	DATHAGE AND PROT	PATRY'	Wasser		Rz.	Rs.	Ra.	Re-	Ra	
	—Buildings .	•	••	••	1,613	***	1,613			
ı L	.—Larthwork	. ,	•		3,43,076		8,43,078			
			TOTAL	•••	3,44,691		3,44,601			
	т	OTAL I.	_works	••	24,22,377	-331	24,22,046	24,22,046	24,22,016	
	II.—ESTAB	Lishmi	ent.							
5. Di	irection and Acc o	UNT	(a)	••	1,11,879	80	4,58,458			
6. E	(SCCTIVE	•••	•	••	3,46,667)				•	
7. U	edigar .	••	••	••	567		587			
	,		TOTAL	••	4,59,113	_90	4,59,023	4,59,023	4,59,023	
	III.—TOOLS	and Pi	LANT.		,			.;	1	
	LISORLLANEOUS .	•	-	••	25,083	3	2 6'0 80		1	
13. R	Sepajes and Cabri	4 GR	~	••	'					
		,	TOTAL	.,	25,083	3	25,080	25,080	25,080	
	iv.—Suspen	SE ACC	OUNT.				_			
14. 8	TOCK		••	4,	55,280	2,733	59,013			
15. 8	TOOK PURCHASES	•••	-			-222	222			
16. 1	liborlianzous Adv	BEOGAY	***	••	1,118	-846	272			
18. I.	ONDON SCORES .	-		••	_	_				
						1		,		
			TOTAL,		57,398	1,665	59,083			
		GRAN	D TOTAL	••	29,63,971	1,241	29,65,212	29,06,149	29,06,149	
V. L	<i>ess</i> rec s tpts o	n capi	TAL ACCO	JNI	C3,616	236	03,852	63.852	, 63,852	
			Net Total		29,00,355	1,005	29,01,360	28,42,297	28,42,297	
	APPORT1	ONNE	T.						,	
40, I	erigation Works.		•		21,77,842	1,005	21,78,807	`		
13. 3	I. W. Navigatiov,				7,22,513		7,22,513			

⁽a) Excludes share of Accounts Establishment from 1912-13. to 1917-18.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Indus Inundation Canals Project,
No.3—REVENUE ACCOUNT FOR AND TO END OF 1918-19.

· · · · · · · · · · · · · · · · · · ·		Impapiat.		j		Personal.	
Rucult74.	Provices	1p14.jp	Total	CHARAPA	Process 674	tota ta	Tural.
المحافظ ما و د يد يديونيوالمناشستان		,		6. ENTENSIONS AND IMPROVEMENTA.	- 12, 12,		1 % to dust see as Append
Ocanpiers' rates	17. 23,21,201	Pe 1,11,484	10, 20,25,40*	2.—Main Carse, and Rossome	Paritalitan An	}	•
Owners' rates on Irrigate ! land	D2 144	***	02,161		In 52'934 20'447	1 11 14 4, 6 2 4	1030312
	4143	• 2	6.15	Total 1 A	ន្ធារុក្សន៍។	23,713	*1.''\$''.''
Sales of water	e,1e7,	14		ANG PIPALIKA T Papa Const And Binampysa, To-Daystop papan	ደን, የድረ ጋዩ መልፍ ድንሻ	ወካ , ୭ፒስ ያሉበት _፤	2-,21,910 2,61,761
Sapply el town	1,414	4++	1,41	4 — Dialbaux Wossi Tiges I li	14,70 400 41,71 400	7, 22, 4 247 42,4	175 24,23
Recupts of plantations	1,37,404	3,6 50		1,—Postpungation c.—Postpungation c.—Describe and	0,50 d		1,257
Gart, share of Dhumili Perduce,	11,61,670	**	11,63,676	Account	26,03,034 25,03,034) 1921r	35,57,358
Receipts from at or Canal Froduce.	6,243	23	;	NAPA TA-liraniy Poran Tiningeny		g type opring	7,40,129 5,613
Rentet Bulldings	;			le'-Ptarranjon Beran Esthurns,		9 ts	
_	1			Torit .	\$2,72,371	1,64,013	£16,70 £4
Fines Bliccellaneous and other receipts.	> =0,444	er Dyz		*_TOOLSANIPLANT 1 —5 district Teets apere and Ince san Maresas 2 —Pressed Herningsy	f/7		
		·		1—Ta5ta	412		
Tetal	37,03,714	2 60,812		1 Navi batiny Peant	31	- 1/470	70,511
Constitution of Sili Clearance.	4, 15,034			4—Ceur Entireds	#1: 		
Clearance Rates	12,78,607			T—Ordice Francisch Karaine & Canniagr	24,225 (44,7		
				OpenStational analysis	37,874	j	
Total	87,03,503	, 2,00,517	. 85,64 411	" Tital	75,001	1,340	70,541
Share of Land Resente collected in the Civil Department.	1,10,04,145	2,22,312		i – REPUNDS OF RI VENUE 7.– PROFILAND LOSS	4,912 1,500	••	±19,8 043,8
Interest on sulsepreceded of waste lands Lonofied	Fr	40	4 r.	Total	1,45,71,307	2,55 954	7,11,097
Total	1,10,03,838	£ 20,2°3	1.12,37,FDs	Indirect Chunges delitable to Rever per Acc unit so per Account No. 3.	0,03,062		
1				Total Changes	1,13,76,39	2,70,510	1,81,01,275
1	1,67,02,418	4,27,790	1,71,52,214	Bolance Net Reyenue	13,72,036	1,58,004	12,30,040

⁽a) Excludes abare of accounts Ratabilist ment from 1912-13 to 1917-18.
(b) Includes Rs. 6,476 an account of Fee (as collection of Revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Indus Inundation Canals Project.

No. 4.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918 19

	•			4mount,				`	Amount,
Total Interest charges to ea	nd of 10	17.18 Re		R ₄ 21,38,965	Nel Revenue	rouhzod to o	nd of 1917	1g	Ru. 15,72,036
Do for the year 1918 19					Do.	đ	oring 1918	-19	1,58,904
Total outlay to 31st March	1919	20 01.360	٠.	 	Balance net l	Interest cha	j gas		7,07,027
Less half outlay during 191	8.19	29,00,838	••	: : :					۵
Moun capitalat chargo	•••	••	••	· [, (1	
Interest at 3-4818	••	. ••	• •	1,01,032	,		_	!	
		Total		22,17 907			Total	i. 	22,27,967

150 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918 19.

Particulars,					P avious	1918-19	Total.
CAPITAL					R3	Rs	R•
Capitalization of abatement of Land Revouse	***	***	•••		8,657	1	8,657
Lenge and Pensi in Allowances	***	***	••	\cdot	71.741	-12	71,728
		Total	••		80, 398	-13	80,3 #
Recente-							
Capitalization of abatement of Land Bavenue	••		••		26,358	325	26,883
Leave and Pension Allowances	***	•••	••	••	6,69,507	14.707	6,84,214
, , , , , , , , , , , , , , , , , , , ,		Total	•	.	6,86,085	18 (82	7,11,097
- · · · · · · · · · · · · · · · · · · ·		GRANT	TOTAL	. 1	7,76,443	17,019	7,91,482

No. 0.-STATEMENT COMPARING CHARGES 10 DATE WITH SANCTIONED DESTIMATE.

		a agvinat (Bamotione:	FO-KD	Cu	rrfnp Sanc	TIONE	Total charges	
PARTICULARS		Expendi turo agair et open cansi sanetions.	Total.	Charges to date.	Amount of Sanctioner Estimate,	Unapent Balance Estimate	to date	REMARKS
Works Establishm nt Toolsand Plant Suspenso Bolonce	Rs. 6 03,648 6 07,048 6 070	3,71,619	/4,59,023	Ra. 50,003	Rs	Rs	Re. 24,22,04 4,59,027 25,08 50,063	
Total	7,51,522	21,54,627	29.05,149	- 50,007		. 59,1163	29 65,2 12	
Lete Receipts on Capital Account.	63,616	230	63,952				63,8*2	
NIT TOTAL	0,57,900	21,54,391	29, 12 2 17	59 051	·	-5 ,083	20,01,30	
Capitalized abatement of Lind Revenue.	67	8,600		1	,		8,657	
Leave and Pension Allowaness.	19,672	67,1708	71,728	***	},]		71,728	
TOTAL	19,729	60,656	80;385				80,385	
GRAND TOTAL	7, 17,935	22,15,047	20,22,682	59,063		-59,063	29,81,745	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19,

Upper thenab Canal Project.

No 2-CAPITAL ACCOUNT FOR AND TO LND OF 1919-19

	·	1	Direct Charle	······································		
			[experies	province depth with the second second second second second second second second second second second second se	Cost of com- structum na- ton extensive	Express tope
Игарі от Ассончт.		Presi us	1914.17.	Telal,	C structed I climate of cut on Mst March, 1617.3	against at our f
1 = WORES.]ie	11+,			
1 —Hi so Wanter		,,,		i ka.		
A -Preliminary Paper for	***	F 741	•••	3-2,5		
he-land	•••	01035		51/15		
Carllionly	"	ter it ivi		(411.41	}	
R,-Buddage	•••	1,40,133	2,000	15-2 41 /		
0 -Morellose is	,,,	57 273	22.563	7* 31e		
P Moretenac e	••	1 77 717	***	175743		
QLores of State	٠	7.47	***	7,*17		
3 arat.	•••	2014)474	\$\$ 073	20,21 477		
2 —Biain Caral ann huandir —			***************************************	Salvery Special St. America.		
APullminary Disease		77,635	13.	77,7-1		
P-land		671614	·0	971,510		
D = Regulators]	Timera	4,575	7,81792	}	
EPale and Wear		0.50027	•	(figure		
Pili-Other Cross Dra-nage We	is	27.74 ***	•••	91,715.4		
G Brage		177.370	10221	155754		
K -Buildings		8/273L	15407	\$5.64		•
I Earthwark		MARS 17		to 2 * 2	- 1	
# Plantations		54,342	7,714	eson	:	
O,—Mis, ellaneous		69,275	474	65,771		,
l'-Mainteraure		3.20 (77		720/77	1	
Q —Losses of Stock —		17,874	***	17,371	-	
Tofal.		1,45,76,203	41,425	1,49,77,728		
Distributabil s						
A-Ircliminary Expenses		1,47,430	300	1,43,749	i	5
B-Land		6 52 547	3,174	r 55.72u		
f'.—Works	,,,	16 37,703	14,402	1652,235	1	
L-Planthwork		19,10,478	27,121	19,37,530		
(i.—Miscellaneous		3,74,219	58,497	3.15.720		
P.—Maintenance	***	14,309		14,304		
Total		47,32,700	-17,099	47,19,710		

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Chenab Caual Project.

No. 2-CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

•		DIRECT CHARGE	15.	Cost of con- struction as	
HEADS OF ACCOUNT.		Imperial,		now estimated (Construction estimate	Expenditure against close
	Previous.	1918-19	Total	closed on 31st March 1917.)	estimates.
	Pa.	Ra,	Rs.	Ra.	Rº.
A.—Preliminary Expenses	0,286	1,220	10,515	ra.	VA.
A.—Preliminary Expenses B.—Land	1,04,252	720	1,04,981		•
CWorks	40,800		£0,800		
L.—Earthwork	10,46,121	78	10,46,202		
O.—Miscellanoous	17,367	15	17,382		
Total	12,17,820	2,051	12,10,880		
Total I.—WORKS	2,77,87,261	54,481	2,78,41,695	2,79,30,947	2,77,74,78
ń.—establishment.	2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~2,707	2,75,01,00	2770,30,9177	* *************************************
Direction	(a) 10,04,559	h			
Executive	32,33,439	15,110	44,80,380	1	
MEDICAL	1,37,200		}		
Brecal Survet	82,573		82,573	[
. Specialifield Survey	110		110	1 1	
HAVE AND PENSION ALLOWANCES		448		1	•
TOTAL	45,47,962	15,110	45,63,072	45,85,942	45,63,072
HI.—TOOLS AND PLANT.					
SCIENTIFIC INSTRUMENTS AND DRAWING	688		688		
MATERIALS. PLANT AND MAGHINBRY	5,221	•••	5,221		
Tools	2,250		2,250		
NAVIOATION PLANT	1,161	* ***	1,161	1	*
Camp Equipade	, \$5	! ••	35		•
Live Stock	874		574	-	
Office Furniture	1,961	54	2,015	}	
REPAIRS AND CARRIAGE	1,25,804	49	1,25,845		
. RAILWAY PLANT AND ROLLING STOCK	8,55,370	••	8,55,370		
. Miscellaneous	11,08,873	538	11,99,411		
TOTAL	21,92,027	543	21,92,570	21,94,104	21,92,570
IV.—SUSPENSE ACCOUNT.	7,96,438	60.43.6	7 54 000		
Srook		-62,416	7,34,022		'
STOOK PURCHASES	-3,506	1,793	—1,713 36	1	_
O. STOCK SALES	14,834 4,692	14,70B	36		•
	4,002	1,375	\$,067		
m/-	B,12,458	-74,046	7,38,412		'
	3,63,39,711	-74,046		3,47,10,990	2.45.20.30
V.—LESS RECEIPTS ON CAPITAL	3,03,39,711 , δ,59,865		8,83,35,749		3,45,30,397
ACCOUNT. NrT Total	3,47,79,846	4,102 —3,154	5,64,057	3,41,46,933	3 20 66 34 6
APPORTIONMENT.			3,47,71,692		3,39,66,310
. Indication Works . M. W. and Navigation	3,46,71,975 _1,07,871	8,154 .	3,46,63,821 1,07,871	:::	•••

⁽c) S.:are of accounts Establishment excluded from 1912-13 to 1917-18.

IRRIGATION BRANCH.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Chonab Canal Project.

No. 2.-REVENUE ACCOUNT FOR AND TO END OF 1916-16.

		lerebiat.			•	lurantal,	
Hrc: 1 r7s.	Previous, 1915-10. Total.		Total.	Chardes.	Previore.	1218/19.	Total
4		114.		and humanismus a soldment of diversity desired and section of the	Ike):a.	Ee
Octuplers' rates	C4,47,*4+		+2,77,20Z	(I) -FNTENSIONS AND IMPROVEMENTS, I, Grad Works	39,827	2 410	41,912
		<u> </u>		T Hair Canali & Heaberry,	2,6",512	10,65"	2,74,972
	}			l(Portinganian	6,014	5,134	19505
Fa'ca of rates	2,514	657	2,602	4Oxapseunanu I'norperive Waxee,	***	45	45
	ĺ		!	Jersell	3,61,122	44,50	2,32,153
				2 MAINTUNANCE AND LEPAINS,		1	
Water supply of towns	1,514	**	1,414	1, Unas Gours	2,85,441	75.2**	\$2000
				2. Main Panal & Phanengs	9,23,758	j 2,82 Car	11,7720
	ł	Ì		Alestronian I	2,50,124	#,***,* **	1,52,540
			1	d dinarrage Wears,	1,6 . *25		1,58601
live-ipts from plantations	\$,0,0	460	2657	Tesa. (3, ,.	20,00,000	1,27,341	23,23118
				a -computation	8,4790	6,22,	61,3:7
		<u>:</u>]	de-establishment,			
Receipts from other Canal goodness,	1,79	325	1,721		2.38,17.5	1	t f
·				f - Liseumnies Pareserene maar,	} P.25,6f2	1 35,760	10,11,044
•	İ	1	! !	7.4.—Rurence	7,30,614	1,78,250	5.63,574
Reat of buildings	711,279	5,346	35,76 3	Total ()	15 98,999	8 35,674	16,31.2-3
	1		:	I -TOOLS AND PLANT.		.,	
				I Sountino Instarmanto anti-linarino Trenstato, 3 Inant and Marigonia.	82,	1	
Tines	6,175	1,761	2,935	12. Miscellawedus	14,012	() (,11)	33,*41
	1			13.—Reposan and Canniage	31,572	년 :년	
				Teval	27,314	6 32:	33,741
Misrellaneous and other seculpus,	55,299	50,433	1,15,732	M.—IMPUNDS OF RE. VESUE.	6,029	125	8,014
Toris	65,73,336	18,6% 071	34,44,370	Terst	34,58,870	12,4,21,	10,95,231
Interest on sale proceeds of waite lands benefited.	2,16,298	1,18,920	3,31,925	Inducet charges dabitable to Revenue Acoustas per	1,90,625	78,122	2,00,14
Share of land revenue	4,60,916	7.526	6,64,450	Aerount Ba, 1,	1		
Collected in the Civil Department.	8,77,264	1,19,149	0,04,413	. Totel charges	103,18,01	12,81,881	\$3,66,581
				Balanes Net Revenue	33,64,979	7,01,330	40,74,410
TOTAL RECEIPTS	74,52,583	19,84,220	104.40.003		-		

⁽a).—Include a its. 46,151 on account of free for collection of revenue,
b)).—Excluding Share of Accounts Establishment from 1912-19 to 1917-19.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Cheuab Canal Project

'No. 4 -INTEREST ACCOUNT FOR AND TO END OF 1918-19

•	Arnount.		Amouns.
Total entlay during 1918-19		Sel revenus realized to end of 1917-18 Lie. during 1918-19 linlangs, net interest charges	Rs. 33 68,079 7,06,309 66,46,263
Monn aspital at charge . 8,47,78,76 Interest at 3:1648 per cent	12,10,823	Total	1,07,20,631

No a-Account of indirect charges for and 10 and of 1918 19.

Panticulans.	Panticuland.									
CAPITAL—				Re.	· Re.	Rs.				
Caritalization of aliatement of Lan.1 Revenue	••	***	}	3,06,375		- 2,66,375				
Leave and Pension Allowances	••	••]	6,21,345	2,118	6,31,500				
		Total	[9,95,760	2,115	9 97,875				
Reverus-										
Capitalization of abatement of I and Revenue	••	••	}	300	50	250				
Leave and Pension Allewances	••	••		1,85,426	75,472	2,70,897				
		Total	(1,95,625	75,632	2,71,147				

No. 6. -STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE

	CHARONS AND	irst Clorp	D BYMCTIOHS	Cuns	EFT SAHO:	none.	Total	
Partiquians.	Expenditure spairer Construction Lisumstr,	Brainel.	Total.	Charges to date.	Amount ol Sanctions i Danimate.	Unspent Balance of Estimate.	distres to date spaines old surrent sauctions.	Remarks.
6 .	Rt.	· Be.	Re.	Rs.	Ra,	Bı	Re.	
DIRECT CHARGES-								
Works	2,75,8P,102	2,16,862	2,77,74,755	00.810	1,55,192	89 252	2,78,41,695	
Establishment	41,57,033	75,730	45,63,072		22.570	22,470	45 64,072	Banction to the come
Tools and Plant	21,90,149	2,4.2	21,02,670		1,531	1,531	21,92,670	swarted.
Suspense Balance			***	7,38,412		7,75,412	7,38,112	
Total	3,42,36,673	2,43,724	3,45,39,297	8,05,362	1,80,595	-6,24,789	3,43,35,749	
Less Receipts on Capital Arecont.	5,5 9 ,565	4,193	\$,64,007		••		6,64,057	
Net Istal	3, 10,76,903	2,59,532	3,30,66,340	4,06,352	1,80,695	-6,24,759	3,47,71,692	
INDIDET CHARGES-								
Capitalized abate ment of Land Revenue.	3,59,750	0,725	3,65,376	.,,		.,	3,66,376	
Litre and Pension Allowances,	0,20,897	10,003	6,\$1,500	•	••	•,•	6,21,500	
Total	9,90,547	17,328	0,07,875		••		0.0 :,875	·
GRAND TOTAL	3,40,57,355	8,00,860	8,49,64,216	8,05,352	1,80,533	-6,24,759	3,57,09,667	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19,

Lower Bari Banh Canal Project.

RO 22 CAPITAL ACCOUNT FOR AND TO END OF 1919 19

_					The The	prez Crambi		Cort of con-	
	Пвати с	or Acc	wr.			Imperal .	-,	core entimentes	i m (i minum t
					Pravious.	19.5 IV.	Te tal.	Retrieutent en • 3,00 March 1017 1	F. Pictonil Bin's.
	V-1.	ORK	S.	~ ~~	Ito.	Io, Io.		l'2	1;.,
I,	Hran Wonas-								
	A Prolitmosty Ex	Lastians	1 44	••	15,964	***	10,944		į
	R Land	••	••	•••	2,27,055	2001	\$ 22,117		}
	C Works	••	••	••	63,68,68	417,6	et, cons		
	K Hudding	••	••	••	107:55	u,zen	1,74,573		
	O ~ Mincilarina	••	•••	••	2 392	***	20,2/12		
	P.—Maintenanm	•-•	••	••	77,505	140	26.27	r.	•
	Q Lawrence Fronk	••	••	••	1,711	g.a	191;	The American Walter of Street	
			Totat,		??.3c,uze}	14 /* 7	1310,000		1
37	Mary Capab and He	147-1763	*						
	A Profession or Fr	इंटर गान	••	••	Legato	• •	1 54,52 1		1
	R-land	• •	**		18,184	:11	17,55		
	D. Regulator	••	••		1,51,522	414	1,57,791		ŕ
	EPails and Weirs		••		4.12,523	***	4,18,733		
	P River and Hill !				en	***	c:1	'	
	P. (1) - Other Cries	Dral	nam Viciala		4153 575	***	8,313,95		
	G Hridem	***	***		4,74,513		4,70,975		
	HNempes	••	••		27,524	•	62,120		
	J.—Mills	••	**	٠,		1,017	1,515		
	K.—Buddings	••	••		11,57,227	£\$,*\$\$	12 45,001		•
	L-Earthwerk	••	••		33.57,163	***	27,27,155		
	MrPlantations	••	••	••	Jet7,553	4,553	2,52,015		
•	ri Mirmlanerus	••	*** *		25,512	£5	F3,277		
	P.—Meintehenn-	••	••		2,27,402	134	2,33,16;		e)
	Q Leeses on breck	-	***		4757	·•• }	4,735		
			Tural		62.11,551	¥ 1,183	e .::,510.1		
5 ,-	Distriktaries-			•					
	APrelim nary Ex	Printer.	••		1,05,147	3.0.6	1,07,181		
	E.—Land	••	••		1,55,257	11,302	1,77,782		
	CWrit.	•••	••		17,69,583	57,172	10,67,0:8	j	
	LEarthwork	••	•		1841,749	31,417	15,75,166		
	O.—Miccelleneaure	••	••	•••	14,59,676		14,80,210		
	FMaintensore	••	•• •		31 449	•••	21,145		
			Torit,		46,15,-11	03,522	27,00,710		
1.	DRAINAGE AND PROT	alīl/ K	Wonks-						
	A.—Preliminary		•		8,713	71	6,253		
	B + 1 and	•••	**		6,691		0,491	-	•
	C Works	"	••		3,214	1,700	4,914		
	LPurthwerk	***	••		40,147	3,114	43,357		
	Q. Wiscellancom	•••	· · ·		12,014	423	12,441		
		-	Torus.		70,870	8,311	76,320		
4	Tor	r44. I	-Wonna '		1,66,71,642	2,04,791	1,49,79,478	1,06,82,150	1,64,00,351

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Bari Doab Canal Project.

NO. 2.-CAPITAL ACCOUNT FOR AND TO END OF 1918-19,

		, D	IRFET CHARGE	۹.	Cost of con-	
Huad of Account.			Imperial.		riruction as now estimated. (Construction	Expenditure
# 1		Previous.	1918-19.	Total.	Estimate clessed on 31st March 1917).	Estimato.
•						
[[—establish ent.		Ra,	Rs.	Rs.	Rs.	Rs.
5. Dimection and Accounts	• 4	(1) 8,45,632)		1,66,82,160	
6. Executive	••	25,10,582	61,765	31,57,879		
7. Special Survey	•••]			
TOTAL	••	30,98,114	61,765	31,57,679	32,06,180	31,57 679
III. TOOLS AND PLANT.						
1. SCIENTIFIC INSTRUMENTS AND DRA	RING	2,274				
Materials. 2. Plant and Machinery		050,11	(
3. Топья		2,825		1		
4. NAVIGATION PLANT		4.681				
B. CARP EQUIPAGE		3,410	4,010	19,50,744	ļ	
6. Live Stoce		ឧធន	(1,0.0	1001133	j	
7. Orrion Fuantiums]	6,217			j	
8, Repates and Cabriage		1,19,618		ĺ	.	
9. Miscertanious		10,10,923				
10. Railway Plant and Rolling Stock)	7,83,454	}			
TOTAL		19,46,701	4,040	19,50,744	10,54,078	19,50,744
IV.—SUSPENSE ACCOUNT,						
14. Stock		7,82,437	97,712	6,81,725		
Ih. STOCK PURCHASES		-1,707	-102	4,508		
16. Stock Sains		400	181	650		
10. MI-OUILANDOUS ADVANCES		9,711	20 405)	002,08	· ·	•
17. LOSDON INVOICES		-1	+1		ŀ	
18. London Stores			••			
Total		, 7,87,810	-77,137	7,10,712		
GRAND TOTAL		2,26,05,351	1,03.450	2,26,28,513	2,18,42,408	2,18,09,017
v.— <i>Luss</i> receipts on capital acco	דאטו	5,10,309	17,032	5.28,001	8,28,001	6,28,001
Net Total	,.	2,19,94,085	1,75,827	2,21,70,812	2,13,14,107	2,09,81,016
APPORTIONMENT.	. [
ATTOMIONMENT.						
49.—Ingidation Works	.]	2,18,27,104	1,75,827	2,20,03,291	Í	

⁽a) Excludes share of account Establishment from 1912-13 to 1917-18,

PUNJAB PROVINCE.

IRRIGATION BRANCH OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19. Lower Bari Donb Canal Project. Na 1-REVENUE ACCOUNT FOR AND TO END OF 1918-10.

		lupremi.		•		Burt RIAL	, ,
Re. PIPTs.	Previou	John-Jor	Timit	Cranty 4,	Propos	1014 10	rest.
occupiers' tales	Re. 5 (16) 3,	R., 21, 1201	1 K. 31 m.1 m.	P. UNITYSION CONTROL PROMPTS IN	114.	lis i	I.v.
				i -tir ir Wes	14 m	25 B	21,248
				to Main Cange and Post of	27,60	17.4	
•	:		:	i liter ferfende .	32.2.1	2004	(1,73
	,			the second to the	1,771	43.4 	4 63
			:	, wed	1,124	\$ 742 < 241	1:157
ealers ares	25/11/2	23,11 1	45 17	AND TENENT AND TENENT AND TENENT		i :	
	i			l, Mraticiaess	Post	* 1,2 (1477
	,			", "Take their air	1, 1, 1, 1,	ינוגיי.	43;64
				the rate expression	1 51 421	F , H1	*1+**
			, !	Committees .	1.575	7 6.	177.
				វីខេត្ត 💸 🔒	16,45,77	1 4 1	1 : 1 :1
Register with the total	13 4	() :	· 14 1	or continued and		ŧ	
a a thai the c	1.1.	10'	19.,	northernort.	157.10-	,	
lent of Hudble than a	17,:47	7, 53		a territor term of we	1	3,3 127	< \$1 E
edu.) (5. Taftin t. f.s. see	:	**		TAP Extens 10.	1.01.	· • • •	(1) (1)
				Trans.	1,11,2	-	1" 5"
	:		t .	1000 D 08388811383			,
Fr. 53m. ••	1,3 %	: -:	251)	- 6-1 64, En 1 6 500 - on, dinger, "fox 6, 46			
	1		•	A TEATT SE TABLET	7.4***	. ·	٠,
	} ;			274h 14	5	1	:
	l ,			4 - Na met ma }4 404	2-	11111	
			ı	Total Extract .	1,51		
	Į į		•	,kar -m c	1		\$ •
Marchaneces and the	32.827	11,1	110, 257	7 - Ulas dilas same I	\$7	İ	
				to orners not the.	17.5%		į
		! 	;	Mercierati ,		· ·)
			!	Tota	·	1110-	
			1	BHEUM G. REVENU	1,93	. 201	. 12
		! !	}	G-1 Rofif AND Loss			
				Introduction of Mails		1 15 11 5	73,63,5
Total	2,044,705	27,07,575		Indirect Charact delification to Historica A Character polymer Account No. 5.		77.56	7,17
Share of Land Revenue collected)		6 3 21.27,42	1	25,5,70	. 	3-72
in the Civil Di rantment			a - 10.10.72			7. 33.31,94	_'
Interest on Aile proceeds of waste land benefited							

⁽a) Excludes have al Accounts Establishment from 1912-13 to 1914-18.
(b) Includes Rs 35,464 on account of Lamberdars feet.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Bari Doab Canal Project.

No. 4-INTEREST ACCOUNT FOR AND TO END OF 1918-10.

•	Ra.	Rs.	•		Rs.
Total Intore t charges to end of 1917-18	***	46,54,555	Not Revenue re	oalized to end of 1917-18	10,93,577
Do. for the year 1918 10			Do.	during 1915-10	33,21,935
Total outlay to 31st March 1919	2,21,70,812	1	Balanco Intere	st net charges	B,07,°25
Less half outley during 1918-10	87,913		,	•	
Mean capital at chargo	2,20,82,899				-
Interest at 3:4818 per cont		7,68,982		•	
	Total	54,23,437		Total	51,24,437

No 5.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918 10.

	Particul	ARS.		•		Previous.	1918.19.	Total.
CAPITAL						Rs	· R4.	Ra,
Capitalization of Land Rovenue	••	•••	***	٠٠		44,050	17:	44,225
Leave and Pousion Allowances	. ••		***	• •••	-	4,23,514	8,617	4,31,162
• .	•	·	Total	i		4,66,765	8,822	4,75,387
Revenue-		-	•					
Leave and Pension Allowances	***		•••	••		1,41,617	73,7B3	2,15,400
	•		Total	••	[1,41,617	73,763	2,15,107

No. 6.—STATEMENT COMPARING CHARGES TO DAFE WITH SANCTIONED ESTIMATE,

,	CHARGES AGA	inst Crosed	Sanctions.	Cun	hent Sanc	TIONS.	Total charges to	
Particulars.	Expenditure against Construction tion Estimato.		Total.	Charges to date.	Amount of saughoard Estimate.	Unapent Ba, anco of Estimato.	data agriust old and current sanctions.,	Remarks.
DIRECT CHARGES-	Rs.	Ra,	Rs.	Ra,	Rs.	Rs.	Rs .	Ra.
Works	1,60,86,806	3,13,528	1,04,00,39.	1,79,08:	2,º1,756	-1,97,329	1,08,70,478	
Establishment	30,17,003	1,50,676	31,57,879		48,701	48,301	31,57,87 ;	
Tools and Plant:	10,34,767	15,977	19,50,744		3,334	3,334	19,50,741	
Suspenso Lalances				7,10,712		—7,10,71±	7,10,712	
Total	2,10,28,631	4,50,351	2,15,09,017	11,59,751	3,33,361	-8,50,105	2,26,93,810	
Less Receipts on Capital Account.	5,10,260	17,631	£,28,001				5,24,001	
Net lotal	2,05,19,26	,, 4,62,719	2,0::,81,01:	11,50,796	33 ₁ . 9 ₁	-8,56,4 ₀₅		
INDIRECT CHANGIS— Copitalized al'atement of Land Rovenue	• 48,950	271	44,225	· v·			44,225	
Leave and Ponsion Allowanees.	4,10,040	21,122	4,31,102				4,31,162	
. Total •••	4,52,090	21,397	4,75,387	11,80,756			4,75,381	
GRAND TOTAL	2,00,72,257	4,84,146	2,14,58,403	11,00,166	2,33,391	-8,58,406	2,20,46,199	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19

Upper Jholum Canal Project.

No 2-CAPITAL ACCOUNT FOR AND TO END OF 1915-19.

					1	BRECT CHARLS		٠
11:	a or da	CUNT.				leapares.		Cottlesse and the con- the transfer
					11/10.00	ipi-lin.	7000	
on the trade seed to show the	i, wons	8	* * *********		Kı.	ks.	Es.	45 .
L-Hem Wones-				i				
A Prenminary Exper	*62	••	••		\$ \to.		27.2	
Bertand		,	• •	••	11,02	••	316.2	Ì
CWorks	3+4	• •	••		1,515	}	1,518	}
K. shedter	***				1,4 +771	14,471	Materials.	
O - Ministerious	••	4	**		77,412	••	57.11 7	
P. Mainter ave	••	••	••		14,57.5	••	14) 7:	
			7. 24*		2,0 (17)	14,424	2.7+ 221	
S—Man Cann ann lirai	r' 88. c eee					.		
A —Probaman Bapan	>r \$	••	•		1,2277.	}	1,71,72,1	i
Restault	••		••		9,37 194	-7	5,32457	
De-Res d'etets	••		**	}	27 11,225	1:1	33 21,271	
B-I alls and Werr	4.	444	••		10.12	42.7	1,04,717	
TRiver and Reli for	rest Works		••	!	1,34,57,561	4277	1,37,53 535	
G Br. Iget	• •		••		11:77:56	2 (3.1	27,54,347	•
HEstapes	••	••	••		23 177		\$157,172	
KHedings	••	••	••		7,48 634	13.712	2,04 3:5	
L Cartt work	•••	••	• •		1,51,54,173	11,123	1/5,55,51	
M-Plantan in	***		••		51,453	• • • •	. e * 13	
O.—Merellane ess			••		(7,1/5		67,100	
P.—Maintenan.c	4	••			4.02.0-0	•• •	4 02,6-1	
Q —Lores on Stock	••	•••	***		4,577	•	4.577	
			Teral.		2/15/25/2002	70,47%	3,16,17,105	
3,-Distributables				Î				
A.—Preliminary Expen	1524	••	••		21,07	610	37,87,0	
B- Land	••	••	••	}	400,017	3,707	4,64,710	
CWorks	***		***		7,35,263	78,926	8,14,194	
L - Earthwork	••	••	447		7,10,281	84,037	7,75,28	
OMircellaneous	••	***	••		4,52,545	87,409	5,39,66.	•
			TorAL		21,21,315	1,05,951	26,31,110	_

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Jhelum Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

					. Dr	RECT CHARD	ES		
Hua	DS OF AC	COUNT.				Imperial.		Cost of con- struction as now	Expenditure against closed
•			<u>.</u>		Previous.	1918-10,	Total.	estimated.	estimates.
4. DRAINAGE AND PRO	TI CTIVE V	Yonns—			Rs.	B5.	Rs.	Rs.	Rs.
A.—Preliminary l	Expenses	••	••	•	7,609	97	7,766		
B —Land	•••	•••	••	• •		3	3	,	
C.—Warks	••	•••	••	••	107	820	1,617	i	j
LEmil.u ork	•••	,,,			513	6,746	7,269		ļ [*]
O Mescellancous	•••	***		••	1,384	300	1,744		-
	,		TOTAL,		9,703	8,026	17,729		, ,
	TOTAL-	-I,w01	7 KS	••	3,42,73,567	2,93 177	3,45,66,741	3,42,90,626	3,42,26,69
· 11-15	ST'ABLI	SHMENT	<u>.</u>						
5. Direction and Acc	ount (a)			••	10,00,964	1			1
6. Executive		•••	***		38,00,842	7 1,34,245	50,73,658		-
7. Medical	.,.	••	•••	,,,	1,37,607)			
			TOTAL		4 1,39,483	1,34,245	50,73,658	50,85,931	50,73,65
_	na Rioc								
I. Scientific Institut		DEININ	d MATERIALS	•••	690	}			
2. Plant and Machin	FRY	• •	***	••	28,61,692				
3. Taols	•••	•••	•••	••	117				Į
4. NAVIGATION PLANT	.10	••	•	•••	1,940	>301	46,13,415	'	}
6. CAMP EQUIPAGE	<i>'</i>	••	141	***	558	i) '	24,7-5,7-15	!	{
7. Oprick Funniture		m	***	••	6,181				•
8. REPAIRS AND CARRI	a D L	***	***	•••	1,67,052]
Bisclilantous	•••	••	••	•••	15,95 573	<i>j</i>			
			TOTAL,	••	46,13.800	391	46,13,415	46,14,271	46,13,11
tv.—sua	Spense	vccon;	it.						
14. Stock	•••	•••	••• ,	••	8,87,008	1,05,913	7,81,095		
15. STOCK PURCHASES	**	••	••	••	-31,551	10,316	21,635		
lba. Stock Salls	•	••	**	•••	4,497	1,007	2,8.0		1
Miscellangous Ad	van Car	***	••		81,440	-34,132	47,308		
17. London Invoters	***	••	• •••	•••		•••	••		ļ
18. London Stones	••	**	••	***		••	***		
	•		'Totaj,		0,41,004	-1,31,336	8,09,758		
,		GRAND	TOTAL		4,47,67,880	2,05,695	4,50,63,575	4,30,86,828	4,39,13,76
V.—Less receipts	on cyb	ITAL AC	COUNT		6,12,600	3,64,051	9,76,064	9,76,054	9,76,05
•		Ne	TOTAL		4,41,55,880	-68,359	4,40,87,521	4,30,10,774	4,20,37,712
,	AD 1184 454	l.co.			· ,				
,	ORTION.	01421A.T.	.•		1 - A - D - A - A - A - A - A - A - A - A	60.000	4 40 00 - 0-		
49 IRRIGATION WORKS	,		,	••	4,40,88,932	-69,359	4,40,20,573		
3. MINOR WORKS AND	NAVIGAT	ior, Inde	riai.		66,948		66,948	.1	

⁽a). Excludes share of Accounts Establishment from 1012-13 to 1917 18.

ADMINISTRATUE ACCOUNTS FOR THE YEAR 1918-19.

Upper Jholum Canal Project.

No 3--REVINUE ACCOUNT FOR AND TO LND OF 1015-10.

•		lurum,				Ivi eniat.	
Re, yn re.	Same distribution was			CHOOF.	İ	-	
	Presions	14419.	Terd.		Press or	1918-17.	fi*.i.
entered display brains deposit inquires envir				क्षान् । ११५ व्याप्त	R-,	71-,	1:,
	R.	ж	ĸ.	; li-di se Weer,	27,781	201	27 577
Wierrates	8,57,124	7,17101	13,45,095	Man Canas and	\$1,672	,	1,02 551
				Si list berakepta .	1,713	;	\$,tn\$
				the francisco francis		16,	11
Sile (I water	1 मह	1,17%	2 041	Time His Time Hall Falls And Bull Hills,	1,2" (21	: 617	11444
		•	, ;	n investor	2 11 17	1: 101	#2.575
		;		" "a. Con si	6,41	# 101,17	11,42:3
	1	ĺ	:	State Similar sections in	* 1*1	19,24	111725
Best plate explaned	\$77	1,107	1,514	7 410 21 .	11,11,112	27.712	13 14
		1	;	(D= 1 vanti (Shu, N).	,,		
		f		mating sins an	Mery		
		•	:	Trans. J. The rest Press Listeria	2 7.7 2	30.50 41	f 32,542
Rent of B dAnge	15,550	, 551.	19,652	Care has been been to asset to as the been been	157) 1 1,11,7+4	s. 13 €	277451
	}	•		21 11/12 113			
				7 7 ml	4 75 7.77		\$ · 5 · 6 ·
				for an order to be the terms	=:	2.	
Times .	175	¥,1++	; I, a	to be the state of			
•		•	1	h the the Mi-	1,443	1)	
			1	the Frank	, , , , , , , , , , , , , , , , , , ,	; ;	
		•	•	\$6 -Name of Affirst on	173	;}3·	5,352
•				P. La et l		;] .	
Mecdimeon and other	25,514	23,577	tyrus i	[7] = (अस्त्राह्म स्वास्त्राह्म स	1,45		
Begun to	İ		İ	a) -Bresies and Carri	1	1 :	1
		*		Mr. marring ".		:1	ł
	1	:		Forst	<u></u>		5/123
		·		CHEFUNDS OF RE-	13-	- 3	175
	1	į	1	Title	17,1075	643.	24 23 759
-		<u> </u>		Indire t Charges stehtable to Receive Account as per as esent No. 6.	09,52	52,04	1,00,17
Total .	. 0.27,036	1 8,0),513	14,24,529		15,10,375	7,37,9 -7	25,48.231
•		<u>-</u>		Balance, Net Bevenue	11,42,742	·/	: 1,15,72
	6,27,936	8,00,513	14,28,639			·!	14,28,559
···IAB AUGEBTS	,,,,,,,,,	1	1	<u> </u>	1		· · · · · · · · · · · · · · · · · · ·

⁽a) Excludes there of Accounts Establishment from 1912-13 to 1917-18, (b) Includes Rs. 21,782 on account of fee for collecting Revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Upper Jhelum Canal Project.

No. 4-INTEREST ACCOUNT FOR AND TO END OF 1919-19.

	No.								
			Ar	nount.				-	Amount.
Total Interest charges Do. Total oullay to 31st Ma Less half oullay during	for the year inch 1919 4.	7-18 1918 19 40.87,521 34.180	1,00			realized du	end of 1017-1	18	R4. —11,92,582 +62,869 1,26,93,057
Mean eapital at charge Interest at 3:4819 per c	e rent 4.	41,21,701	1	5,26,229	Didding liot	Tinciest Cit.	mBe2	••	1,00,00,000
TUTGLES! III 2 2012 be:	, one	Total	 	3,73,335					1.15,73,335
	No. 5—ACC	OUNT OF	No Rect	CHARGES	FOR ANI	TO END	OF 1918 19.		
	. Partic	11455.			Previo	וייים איני	1918-10.		Total.
						Rs	R5.	_	Rs.
Carital— Caritalization of	' ahalamani ad	Tand Ram			1	1,95,425	11,	795	2,07,150
Leave and Pensi				••	Į.	G,86,508	.**, 18,*		7,05,302
1/6are and rens	on intermedia	, , -						!	
Revenue-			Total	• •		1 284,18	30,	519	9,12,452
Capitalization of	f ahatement of	Land Reve	nue	٠		700	***		700
Leave and Pens				••	l	69,125	52,	547	1,21,773
									·
	•		TOTAL	••	 	99,526	52,	047 [†] 	1,22,173
		G	RAND TOTAL	•		9,51,789	,		
'Xo. 6-	-STATEME	T COMPA	BING CHAI	RGES TO	DATE WI	H SANCT	IONED EST	IMA FE.	
7177		-		······································		 	1	1	
,	CHARGES AGA	INFR CLOSE	SANCTIONS	Cur	CENT SANCT	10%4	Total	,	
Particula ^e 8.	Expension furo against Construction Estimates.	Espendi- fura against open canal san-tlons.	, Tojal,	Charges to dale.	Amount of Sanctioned Estimates	Unspent Balance of Estimate.	charges to date against old and current sanctions.	Rev	ARES.
	R3.	Rs.	Rs.	} R•,	Rs.	Rs.	R ₅ ,		Rs.
Direct Charges-	3,30,19,625	12,07,068	3,42,26,693	3,40,051	£0,933	2,80,115	3,15,8G,744	S ey. No.	77 W I 10,769
Establishment	47,21,948			1	.,	, ,	ì		7-2-18
		3,51,710	5.1,73,658		12,273	12,273	50,73,658	" No.	7-2-18 074 WI
Tools and Plant	45,91,707	21,648	5.1,73,658 46,13,415				50,73,658 46,13,415	,, 50.	7-2-18 078 WI
20018 4114 5	45,91,707				12,273 886	12,273	46,13,415	" No.	7-2-18 078 WI 21 2-18
Tools and Plant Suspense Burne Total			46,13,415		12,273	12,273 856	46,13,415 8,02,758		7-2-18 078 WI
Suspense Battace	4,13,33,340	21,648	46,13,415	8,09.754	12,273	12,273 856 —8,01 ³ ,758	46,13,415 8,02,758		7-2-18 078 WI 21 2-18 17.942 1769 WI 14-5-18 0447 WI 27-18
Suspense Bullice Total Less Recepts on	4,13,33,340	21,648	46,13,415 4,39,13,706	8,09,759 11,45,609	12,273 886 73,062	12,273 856 —8,01,759 —10,76,747	46,13,415 8,02,758 4,50,63,675	" No.	7-2-18 078 WI 21 2-18 17.942 1769 WI 14-5-18 0447 WI 2 7-18 2268 WI 16.248
Suspense Battace Totat Less Revents on Capital Account.	3,68,957	21,648 15;80,426 6,19,097	46,13,415 4,39,13,706 9,76,054	8,09,759 11,45,600	12,273 886 73,062	12,273 856 —8,01,758 —10,76,747	46,13,415 8,02,758 4.50,63,675 9,76,054	" No.	7-2-18 078 WI 21 2-18 17.942 1769 WI 14-5-18 0447 WI 27-18 2258 WI 20-10-18
Total Less Recipts on Capital Account.	4,13,33,340 3,68,967 4,19,76,353	21,648 15;80,426 6,19,097	46,13,415 4,39,13,706 9,76,054	8,09,759 11,45,600	12,273 886 73,062	12,273 856 —8,01,758 —10,76,747	46,13,415 8,02,758 4.50,63,675 9,76,054	" No.	7-2-18 078 WI 21 2-18 17.942 17.942 14-5-18 0447 WI 0447 WI 27-18 22-58 WI 20-10-18
Less Recipts on Capital Account. Net Total Indurer Charges Capitalized abatement	4,13,33,340 3,68,967 4,19,76,353	21,648 15,80,428 6,19,097 9,61,329	46,13,415 4,30,13,706 9,76,054 4,20,47,712	8,09,754 11,49,609	12,273 886 73,062	12,273 856 —8,01,759 —10,76,747	46,13,415 6,07,758 4.50,63,675 9,76,054 1,40,97,521	" No.	7-2-18 078 WI 21 2-18 17,942 1769 WI 14-5-18 14-5-18 17-1,522 22-18 WI 20-10-18 20-10-18
Less Recipts on Capital Account. Net Total INDIRECT CHARGES Capitalized abatement of Land Revenue. Leave and Pension	4,13,33,340 3,68,957 4,19,76,353 1,82,300	21,648 15,80,428 6,19,097 9,61,329	46,13,415 4,30,13,706 9,76,054 4,20,47,712 2,07,150	8,09,769 11,49,809	12,273 885 	12,273 856 —8,01,758 —10,76,747 	46,13,415 8,07,758 4.50,63,675 9,76,054 1,40,97,521 2,07,150	" No. " No. " So.	7-2-18 078 WI 21 2-18 1769 WI 14-5-18 14-5-18 0447 WI 27-18 2258 WI 20-10-18 2270 WI 2270 WI 2270 WI 3,417

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Shahpur Canal Project - Imperial.

 $N_{\rm 00}/2$, CAPITAL ACCOUNT FOR AND TO ESTO OF 1-18 1%

Hardwar Accelsi		Pres, us-	iniver Cusi in crail	r. Teal	Cost of more on a factoring of entire and denoteing to entire to trade on 51 to Much 1891.	Engineering Engineering Pargen tea
1 -wolats.	deren in hadan safta da				,	, .
2 Main Canad, and Branches-		113.	It+.	Its.	}\$+,	lie.
r · Lend	***	0,67a	***	\$ 642 s		
Di-Printates	•••	12,142		15,163		•
G. Brulees	***	*****	1.44	13,112		
K - Butldiege			γ ΣΣΣΚ. 1	etr		,
I - Partheest in a in in	*	50,076		4. 1.74		\$
Tetal.		3:0:11	1,70	1,32,717		
3Describe takers						
Be-Land	.,.	5,51 1	٠	*17,4		•
C,=Werks	•	14,571	}	15,171		
Le Entiloyath		\$1,771		#1,579		•
Toras	***	45711		23.74.		
Torol I. Wolks	•	1,25713	1.1- 7	ly lave	1,-1,72.	l _{an} t, cas
n istanlennest,						
6. Distribus		754	7,11,5	30 754		
Co-Executive on on on	***	22,7 2 [) ;			
Tores.		30,21.1	2,111.1	31,75%	22,35N	Cuitae
m, -tools and plat	۲ï.					
12.—Miscriffablink		D\$3	,		, ;	
13,- Repairs and Carliage		24	213	Bee	!	_
Total		013	2"7	\$61	¥6+ }	EG 5
n GRAND TOTAL		2,05,003	6,767	2,13,61-1	2,11,070	0,14,790
APPORTIONMENT.						
49 Irrigation Works		2 05/103	9,757	2,14,690	2,14,690	2,14,690

Note.—Capital and Revenue Accounts of these canaly will continue to be prepared reparately until the Shahitir, Branch of the lower Hielium Canal has been constructed and opened for irrigation, side Serietary to Obvernment, Punjab, P.W.D., Trigation Branch, letter No. 0804, L., dated 7th June 1205.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Shahpur Caual Project-Imperial

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1918-19

		IMPERIAL.		24,		IMPERIAL	£.
Receirts.	Previous.	1918-19-	Total.	Charges.	Providus.	1018-19	Total.
	Rs.	Rg.	179.	(1) —EXTENSIONS AND IMPROVEMENTS,	Ra,	Rs.	Rs.
Occopiers' rates	23,72,033	61,479	24,33,514	2.—Main Canal and Bhandres 3.—Distributaries	82,238 14,623		82, 254 14, 623
Sale; of water	1,318		1,815	TOTAL (1) (2).—MAINTENANCE AND REPAIRS.	96,881	10	96,877
Receipts from Plantation	10,601		18,661	(2).— Main Canae and Branches 2 — Distributibries	1,32,770	20,807 5,092	6,98,860 1,37,852
Receipts from other Cannl Produce.	3,810	***	3,856	Total (2)	7,78,932 683	25,989	8,94 ,521 858
Ront of Buildings	1,768	,•1	1,388	(4).—ESTABLISMENT (5).—Direction and Account 4.—Executivn Establishment	85,150 5,17,356		-
Finés	1,868		1,866	7.—Dedical Do 7A.—Reverse Do 7B.—Navigation Do		32,408	6,34,983
Miscellancous and other Receipts.	1,719	···	1,719	TOTAL [5],—TOOLS AND PLANT. 12,—Miscritarious 13,—Ripains and Cabriage	3,10B	32,458	6,34,6 s3 6,212
Total	78,08,780	61,479	2-40-050 2-40-25-7	Total	5,121	1,001	6,212
Share of Land Rovenue col- loc od in the Civ.l Depart- ment.	4,17,302	20,618	4,38,010	J.—REFUNDS OF REVENUE TOTAL ndirect Charge debitable to Revenue Account as per Account No. 5.	1,238 14,84,016 85,8±3	56,181 4,546	1,283 15,44,379 90,363
Total	4,17,392	20,618	4,38,010	Total Ghardes Balanco, not Rovenno	15,70,738	54,010 18,087	15,34,748
TOTAL RECEIPTS	28,18,172	82,007	28,98,209	GRAND TOTAL	28, 10, 172	82,097	28,08,260

⁽a) Includes Rs. 1,926 on Account of fers and allowances for collection of Revenus.
(b) Excludes share of Accounts Establishment from 1912-13 to 1817-18.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-19.

Shahpur Cana Preject-Imperial

NO S-ACCOUNT OF ISBURECT CHARGES FOR AND TO END OF BOSCH

Partien ⁱ t a	:	Part	igis.ip	Te-ta!
•				1
rpital	ŀ	16-, ;	lt:.	314.
spitalization of abateur at at lead Revenue		2,876 3	•	. 5,054
e ive and tension Allonances in		4,545	250	42.3
Total	••	12:-1	y hamiltonik , a syrya 1 [] historijanski vez yaji ,	
rt1917	:	ļ		:
egun'irankii ef absterrest of fand Bersina	•••	Fit	••	114
cave an . Persion All nerves	•• 1	£ \$4' 7'4 }	4,717	5,1125
Triel	***	and the second s	Tyles	11 (77)
Oras - Traf	}	67118	4+15	r 4650

No by STATEMERT COMPARISH CHARGES TO DATE WITH SANCTIONED I -TIMALS

	(diaritz 44)	Tibre fourth	Sawerious.		Curarys 1	Com William		
Pauticelals.	Capondhi tuna Aprinat Capatrat tiru Celimasa	l'spanditure wairek ojen rarek kutetimi v	Total	र्वावर्ड एक	Arenzes ef ef especializati		Trans Theres Theres Theres Theres Theres Theres Theres Theres	·}(##2015.
Direct Chrysler	t:	114	Re	Ha.	1:	, f R-,	i Re	IIs
Weeks	1,78,5 3	C.P.A	INDEC.	***		; ; •••	1,51,111	
Retain islamens	20,240	2,6.8	22,73			• •••	31,774	
Tools and Plans	ala	to ;	516		! ! "	••	£*,	
Total	5,957		3,11,4' (1		1 , 5			
Total	וייניה	,———, ,1101	210 818. 31	<u> </u>		-	\$714,7 1/4	
Lers Reoripts on Capital Account	••		.,	• •	; ; , , , , , , , , , , , , , , , , , ,	۰.۰		••
Not Tetal	2,05,923	4,757	2,11,0%				\$ 14,62 *	
ADDRECT CHARGES-			j			į		
laritalized abstructs of Land Revenue.	5,639	/	150,6	(5,636	
eave spil Pension Al- lowensess	4,543	B¥n	4,693	!		•••	4,693	•••
ļ								
ரமரி	9,9-1	350 (10,221				10,5*1	
Grani Total	2,13,014	0,107	6,25,021				2,25,021	

OFFICE OF ACCOUNTANT GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

. Ghaggar Canal Project.

No. 2.-CAPITAL ACCOUNT FOR AND TO END OF 1918-19.

·				Direct Co	на поен.				
HEAD OF ACCOUNT.		Imperial.	•	Go	ntrabuti	on.		Total.	-
THE PARTY OF THE P	Provious,	1918-19	Total.	Previous,	1018-19.	Total,	Provious.	1018-19.	Totai.
•	Be,	Ra.	Ŗa.	B#.	Rs,	Ra,	Ra.	Rs,	Ba.
t,_works.		,		•		•			
1.—Haid Works—	,			•		,			,1
BLand	432	. 9	452	268		285.	720	·	720
C.—Works	50,817	***	50,817	39,878	i	69,878	00,095		198,09
K.—Apildioga	2,186		2,183	1,458	,	1,458	3,044		3,544
Total	Ģ2,435		62,125	41,624		41,624	1,04,059		1,01,659
	, , , , , , , , , , , , , , , , , , ,								7-
2,—Main Canal and Beanches.				•		•			
A Proliminary Expenses	7,500	••	7,569	5,046	.,.	5,046	12,015		12,615
B.—Land ,	8,750	***	8,750	8,294		8,204	17,044]	17,044
D.—Regulators	19,082	4**	10,682	5,434		8,434	28,110		28,115
EFelis and Wolrs	1,861	**	1,851	5,040	••	6,040	8,910		6,910
G.—Bridges.	24,076	••	24,076	27,690		27,600	61,778		51,775
H.—Escapos	13,188	***	13,183	100,0	•••	5,851	18,830		16,539
K.—Buildings	5,912	2,302	8,214	13,305	878	15,971	21,307	2,678	24,185
L-Earthwork	77,208	***	77,208	1,10,100		1,10,100	1,87,,814	,	1,87,3 14
O.—Miscollandous	1,837	* ***	1,637	2,588	."	2,588	6,425	•••	4,4 25
Total 2.	1,68,080	2,302	1,68,382	. 1,88,265	576	1,88,841	8,48,345	2,878	3.51,22 3
, ,		; ;			1				
3.—Distributaries—	-				-				
APreliminary Exponsos	403	*:-	403			***	403	· '	403
B.—Land	\$,932		3,933	. ***	}		3,933		, 3,683
&.—Works	17,665		17,095	. "		•	17,006		17,995
L-Earthwork	26,210	; **	29,210	-		* 11	20,210		29,210
Q.—Miscollaneous	14,783	•• (13,783	8,740	:	, 8,745	23,528		33,528
		:/ :		:		;			
Total	11.3. 60;324	· - 1207.	00,324	8,745		8,745	7 8,069		76,090

ADMINISTRATIVE ACCOUNTS FOR THE MEAR 1918-19.

Ghaggar Canal Project.

No. 2 - CAPITAL ACCOUNT FOR AND TO END OF 1915-19.

				Pinter	Cuan	25 °.				2 1 1 cc 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	J. war 12
Heads or Accourt.	**************************************	les est		(14	ter ^j adi	ın 		24.1		A Line on Line	A jainst almost
MARKET OF ACCULANT	Perchan	19 h 19.	T 184	Prostrus.	1915-19.	r fal.	Province.	1319 13.	Ti tak	Topus to !	later for a
	r.	11	Ile.	1:>-	Kı	lis,	R,	Įįe.	R:,	la.	lte,
4.—Drainege and Protective Woods				•							
L.—Rarthwork	# + O t	•	£,+01	!	٠,	•••	Z,501	••	2,571		••
Total	1 501		5 101		••	••	14/1	.,	2,472	.,	"
TOTAL L-WORKS	2714,640	2,3/12	2,05,512	(35,C3)	2.4	2,* 4,2411	1,37,574	2,424	1,71,162	ילע ייי,	333,511
II.—ESTABLISHMENT B.—Directics and Account U.—Risective 7.—Meridal Leave and Persion Arrowaver	17/410 47,632 6/406 	348	(3,5 \$ 	5 423 2 4234 2 4234 2 4234	,	2-,916 6,417	22,678 74,620 2,775 8,431		5,427 1,07,4=8	••	
Total	4:112	761	(3.1)	25,04*	147	44,457	1,7 7,7 4 5	F37	1, 7,041	t,r-,r:19	1,01,641
11L-TOOLS AND PLANT.	7,423	34	7,957	2,734	9	2,713	10,457	43	₹6°•€0		**
Total	7,003	34	7,957	2 (3)	· • •	2,813	10,457	43	10,200	16,510	673,01
GRAND TOTAL	1,65,575	3,042	7,45,40	2,55,184	; 732	 257,151 	.20'410	3,771	n,51,50:	2,46,020	7,51,652
v.—Less recents on capital account.									The second secon		- The Audit of the Control of the Co
NET TOTAL	1,05,365	3,042	4,68,407	2,55,434	732	2,56,156	1,50,810	3,774	6,51,593	6,53,030	6,81, 652
APPORTIONMENT.										,	,
42.—M. W. AND NAVIGATION, INFERIA	1,08,765	3,012	2,55,407	:,55,454	732	2,56,150	6, 0, 910	3,774	0,51,593	2,85,730	6,51,652

⁽a) Share of Accounts Establishment excluded for the years 1912-13 to 1917-18.

OFFICE OF AGCOUNTANT-GENERAL. ADMINISTRATIVE AGCOUNTS FOR THE YEAR 1918-19.

Ghaggar Canal Project.

No. 3 -REVENUE ACCOUNT FOR AND TO END OF 1919-19.

		IMPPRIAG	•	Cox	TRIBU	non,		TOPAL.	
Rucrieus.	f Previous.	1918-19	Total.	Pres lous	1918 19	Total.	Provious	1918 19	.Total.
Occupiers rates	Rs.	Rs. 12,577	Rs. 1,74,169	R4.	H9,	Rs.	Rs.	Rs. 12,277	Rs.
Recalpts from Plantation	2		2	2	9.9	2	. \$	••	6.
Receipts from other Canal produce.		••	••	1	••	1;,	1	***	1
Rent of Buildings	232	••	232	148	••	148	350		350
Finos ,**	260	••	260	70	•••	70	830	••	330
Miscellaneons and other Recoipts,	184		184	120	••	120	. 304	bag .	304
Total	1,62,560	[2,277	1,74,840	341	••	341	1,02,010	12,277	1,75,187
TOTAL RECEIPTS	1,62,509	12,277	1,74,848	341		341	1,62,910	12,277	1,76,187

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Ghaggar Canal Project.

No. 3-REVENUE ACCOUNT FOR AND TO EMP OF 1915-19.

	,,	Irrintat.	and a second of the second	6	*Talketic	H,		Tirit,	
Charges.	f'n vious,	स्थाप	Teta	Presi w "	19:•-17.	Tetal	Proxinas,	1v45-10,	i tui,
	Re.	13.	1: .	111.	1:4.	,————— : K.			
(I) EXTENSIONS AND IMPROVEMENTS,	1.5.		** .	}	i		R∗.	1:0	31.p
(I)Hi an Wonas	10,000	•••	10,000	17:1		8,7.1	12,732		18,533
(2).—Mais Canat and Beat cur-	17,497	2021	trans	3,464	5.5	: 6 - 4523	17,492	•	20110
(7) —I istrib. Tanion	1,845.		4,541		1 ; ••	Ì	4,58.	-	4116
(4).—Dualyten and Properties Words.	\$01	••	191		••	: :	And		3014
* Torat (1)	\$2, ** 1	# e7	31,427	", 2"	3.5		24 .73	2,7.78	41. 97
(2L+MAINTENANCE AND REPAIRS.		***************************************				; 			
(1).—Hean Works	31,713	1.072	32 + 15	24,112	:11	1 21,111	22912	1,58%	14,091
(I)—Main Caretaann Berberts	10.70	4,000	1,12,7~*	(\$,53)	17.29	, F7,532	1,7 - 1017	in the	1,75,6.7
(5).—Pistriberalitis	253.1	1,500	296.13	11	,	, Inc	25,530	1,200	27,200
(4).—Dramagn and Profession Works.	£ .2	.,	192		••	;	57. 4	; . ;	172
Tores (2)	1,04,57	6,110	1,70,3 - 1	43,1 2	1324	20.0	2 17,574	٠,١:٠	2,61,740
(3).—COMPENSATION	10,7 %		\$1,5 %		**		Jul.	, ,	14,233
(0,—Establishment,					;)				,
(7) — Graina. Chranasomer recupro Direction and Acousty).	(?1,+71)	}		4-2-	17	\$/ ¥	62,433	= 741	\$1978
(6),Ext wave foregoing	2,01,512	ុំ ខ្លះទេ	24.44.4 21.37.42	1700	. E-21				
(7 . From to Do	6 702	1 '	67.2	!	Ì		2,17,642	` <u>,</u>	2,19,7,17
GA -Brise in Po.	1/ 5/1/	, i.i. 7,11;	1,10,155	"	179		f _i *··:	,	V, 242
(5D) -Lee a sen les ma At		,,••.	• • •	3,671	i '"		1,65216	k	i,iezza
LON SMEZY,			•••	3,11		2 17	স্ নের স	71	7,347
To tak	2,71,250	10 (61)	7,51521	21,6-2		2" 12.	7,07,117	11,237	4/47,*49
5'- TOOLS AND PLANT,	·					-		·	
12.—Merteades	-773	,			; j	•		,	
13.—Perairs and Carriage	3,107	} 10s1	5,46	1, 64	ំ គរ	1,532	- 4,53;	1:0	4,71.2
Total	\$7,743	125		1,70	3.				
(6),-REFUNDS OF REVENUE	0,432		2,632			1,-11	2,75	1tn .	4, (-2
ToriL	6,56,5-6	17,77	6,17,6.4	,19 17.4	2,	20		2117	2,152
Indirect charges debitable () Revenue Account a sper Account No. 5.	61,0 -4	1,1,0	87,161			1,22,615	51,90+	1,413	7,04,020 50,151
TOTAL CHARGES	0.3-,271	20,791	6,50,6 8	1 19,557	2,5.00 ;	1 50 1.17	7 84 1.71	97 450	
Belance Ner Revenue	-4,75,705	-8,511	(,31,214	-1,19,110		1,52,516	-5,55,931 ; -5,03,121 ;		7,51 6 1
GRAND TOTAL	1,02,560	12,277	1,71,515	[31]		3:1	1,62,016	12,277	1,76,195

⁽a) Includes Rs. 369 on account of less for collection of Revenue.
(b) Share of Accounts E.t.thlishment excluded from 1912-13 to 1917-18.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Chaggar Canal Project.

No. 1.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918-19.

	Particulars.					Previous.	1018-19.	Total.
				*		Rs.	Rs.	Rs.
Capital—								
Capitalization of abatement of La	and Rovenuo	••	••	••		2,000		2,000
	(Imporial	••	••	••	1	8.792	98	8,890
Leavo and Pension Allowances	Contribution	••	••	• •		5,439	18	5,457
•			•	Total		16,231	116	16,347
•							-	
Deduct - Leave and Ponsion Allo sharges and transfer od to A	nrancos dobitablo locous t No. 2 of t	to Aikanor e canal,	State	treated as	direct	5,430	18	5,!57
		Net debita	hia tu T		ŀ	10,792		
			DIG LO I	mporial	•• !	10,792	98	10,890
Retrnue—			010 t 0 1	mporial	,		98	10,890
		••	••	inporial.			98	10,890
Inpitalization of obstructed Lat								
C»pitslization of obatsmont of Lan	nd Revonuo			••			••	
Capitalization of obasement of Las	nd Revenue			••		61,918	 1,493 71	 53,461 3,127
inpitalization of obstructed Lan	nd Revenue						 1,493 71	 53,46 <u>1</u> 3,127
inpitulization of obstrucent of Lan	nd Revenue Imperiol Contril ution	to Bikaner	,	·······································	 		 1,493 71	53,461 3,127 54,588
Capitalization of obastanont of Lan Leave and Pontion Allowances Deduct—Louvo and Prasion Allo	nd Revenue Imperiol Contril ution	to Bikaner	,	·······································	 		1,493 71 1,501	53,461

No. G .- STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

		T AUAINIS C SANCTIONS.	Loskii	Cus	REST SANCT	ONS.	Total charge-	
Particulars.	Exponditure against Construction Estimate.	Expendi- turo opsinet oron canal sauctlous.	Total.	Chrigos. to date.	Amount of sanctioned Estimate.	Unspent Balanco of Estimate.	to date against old and current sunctions.	Renars,
	· Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ra.	
Direct Craning-	f.			11.1	A.		•	
Wor > Establishment Tools and Plant	4,98,214 1,40,970 10,048	35,02: 0,97; 45:	5,33,24. 1,07,94 10,50i	2,911 	2,491 817 40	-220 817 40	5,96,152 1,07,911 10,500	deted lith
. lotal	6,09,233	42,160	6,51,632	2,911	, 3,318	437	0,51,593	late
Less Receipts on Capital Account	•			-				, <u>,</u>
Not Tutai	6,09,232	42,150	6,51,682	2,911	3,34	. 37	n ,54,6n3	70 W.
Indirect Observed of Land Capitalized of abstement of Land Revenue	1,000	100	2,000			.,	2,906	Secretaary's No. 1770 May 1918, Rs. 3,
Loave and Pention Allowances	7,008	922	8,800	•••		*	8,890	N 8,
Totai	0,808	1,022	10,890	2,611	•		10,890	2,0
Grand Total	0,10,100	43,472	5,0,10,2	2,911	3,346	437	0,65,183	Secreta

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018 to.

Lower Sutley Inundation Canals including Hajiwah Canal Project.

NO. 3 -- REVENUE ACCOUNT THE AND TO END OF PHEAD.

		foruntit.			P Shakani i M	gent and version	profesore as no find
Richtta.	Pievious,	1948-10,	Total.	Charate, •	Pperlm.	1916-39.	Total.
			· 	NAME OF TAXABLE PARTY AND POST OF TAXABLE PARTY.	<u></u>	***************************************	l
	Rs	fis.	114.	15-1 ATUNE 1983 ASID PROBACTES AT	₹°+	139	r.,
Deonjaera satus	70,5°,134	2,13,150	12,15,91	I william Cober & Bressman	5-10-25°2	61,616	try 2,511
) !	\$ \$19427 \$1.1 2 ABITS	16979	10,000	រំ _{ព្} រលេខ
Salay of water	3,31;	211	(i 0,12.	Language in the Profession	₹,6%5 1	اونیر عدر بندس	. 5,044 5,044
			•	707st (1)	11,12,26	1,024.51	116-21
Rechipto form Plants ntidus	70,"10	1,050	} ************************************	2 PAINTENANCE AND DEPARTMENT AND C Mark Device Discours	#117,31	tasti	#25479
				',-D. or fri fri	3,52,	10,015	1,55,873
Receipts from etter	Z.,27,	zet	34 (7)	to Inchest Roses	5,54	10,0	;, (6
Can's preduce.			È	's oras fås	7.142,421	~','1	\$1, \sus
			i i	n-comparation	4,150	•••	5,1,3
Rest of Dulldings,			1	v) — eptablishent	;		
				Lating the and Armen (1) Lating the Betarish the billion Let being an	\$45 \$143 \$45 \$143	\$ 12.747	82 77,728
inor		1,770	} 5:,14:	l'ARurser In	د چېزولې و احبيت د درا سند	40.5.5 1.19	1 21 - 42
	11101			7 74 (5)—7001° AND PLAST.	\$.61,211	1,10,627	727, 7,75
directioneers and etter the Receipt i.				l.—E is repret Interposed to be be Inches of the services of	18 -	' 1	
Total	41,00,774	\$,74,973	15,60,03	In-Thice F. Naturation liant J. Live force Let force	1943; 61 111 111 (112) 51 (112)		45/653
			·	Teret	47,124		6 052
Contribution	12,45,636	••	12,63/52;	6).—REPUNDS OF BEVENUE. PROOF AND LOSS.	\$/12/ 54-		1073
thier Labour .,	50,21;110	•••	34,21,116	be opens Action of Microlland Advantors Stock parchams Stock sales	2+,73;; 2+,73;; 17;	man () parting parting parting	27,021 -2,387
	,	į		_ Tetati	\$ ~ 'til.';	2 75 j	:1,35\$
	Ī	į	-	Table Labour	19424 310	·····	21,24,110
hare of Lard Resember	97,83,123	*,77,764 [†]	Tre the galaces.	Tetal	1, 7,15,211	3,26,74;	1,10,71,953
Department.				Indires clarges delámido la Rosamo Arcond as per Ascona No. 5.	1,01,721	15/2.6	4,19,471
Total Richity	1,00,77,020	8,30,711	1,98,]4,761	Toru Charops	1,41,40,417	2,13,000	1,14,91,117
				ttalance, Set Besenue	70,703.33	1 91,712	61,23,347
	1			GEAND TOTAL	1,9477,000	5,50,714	1,99,13,761

⁽a) Share of Account's Establishment excluded from 1912-15 to 1917-15.
(b) Includes a sum of Eq. 7,165 on account of for for collection of Revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Sutlej Inundation Canals including Hajiwah Canal Project.

No. 5.-ACCOUNT OF INDIRECT CHAUGES FOR AND TO END OF 1918-19.

Particulars.	!	Frovings.	, 1018-19,		Total.
•		Rs.	Rs.		Rs.
evenuc—	1				
	! ! ,				
	-	<u>.</u>			
•	.				
apitalisation abatement of Land Revenue	••	5	'**		
		•			
	į			,	
Leave and Pensica allowantes	••	4,61,199		18,260	4,19,459
	٠.	c			
	ļ				
		,	,		aktoopeliilijk astoroope, programme
Total		4,01,204		18,260	4,10,451

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-10.

Lower Sutlej Inundation Canals (Hajiwah Canal Project)

No. 3.—REYENUE ACCOUNT FOR AND TO END OF 1945-19.

		luppriar	1			lurres.	
Receipts.	Province.	1918.17.	Total,	Cnar-317,		7 15 E	l's tul
	Rs.	Ite,	Ю.	description of the second	Н1,	Re.	li,
		בבת,ום	5,00,001	(I) EXTENSIONS AND IMPROVEMENTS (I = Main Capal & Brain of -	75.401		#
Occubiets, torce	6,44,791		2,0.,0-1	1).—Phirmityans	27,125 17		73,628 If
				Jares (i)	*3 (17)		21,349
Cains of water	11	••	. 11	le Reintlinance and Repairs,		,	
-				21,-Mars Capar & Francus	2,61611	1	2,71,193
Receipts from Plantations	187		192	(2),D.er-iruzania	19		12
	1			\$ 108 AT {\$}	276.27		231 2.2
	1			73),COPPERSTION		174	
Receipts from other Car,al Produce.	\$5	410	35	D.—Petabliehmper, (a) (5).—Inductor and Acc. (3)	23163		
				(4) "Percentar Presenting near.	20,582		1,13,163
Riscellantons and other lie- cepts,	(n)		£3	TEAL-Biverer D	40,219	ز	
,				Total ".	1,45,509	4,272	(1,11,1el
				(5,-Tools a plant,			
				Phone Navidation Prayer	2,40%	G	2,701
Total	B,44,584	21,333	7,65,917	112).—Beraterand Carriers			.,,,,,
			i	Totat	2,150	,	5,701
•			t t T	(ebright on bial.	120		523
) 	7 PROTT AND LOES			
Phere of land revenue collected in the Civil Department,	8,90,019	31,25"	:,67,322	Total	1 45 751	10,-04	4,20,150
¢ .				In little Charges delitable to Bryenine Accounts as per Account No. 5.		695	21,102
,				TOTAL UNARDES		-{	4,40.00)
		20 000	11,33,239	Ila'anto, Not Hevenuo Gnanti Total	10.50		11,37,239
Total Receires	10 80,626	1 25,013	11,00,000	GRAND TOTAL	10, 10,000	1	1

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Lower Sutlej Inundation Canals and Hajiwah Canal Project.

No. 8—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918-19.

Particulars,		Previous,	1918-19.	Total.
			1	
•				••
₹NN DB				
THE THE				
		•		
and Pension Allowances 😁		20,564	E98	23,162
		-	,	
		• ,	٠	
				•
		7, 4,	,	•
			ì	
		•		
	'			
Tota}	,.	20,564	، مرود م	21,162

OFFICE OF ACCOUNTANT-GENE AL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Chenab Inundation Canals Project.

. No r. - BOYENCE ACCOUNTS FOR AND TO LND OF THE 19.

•		141511(1				[+2 mist	,
Receives.	l'ens come,	INIS IV	T. Mal.	f'estore)'j. wi-iia	1914 10.	Trint.
book at the separate and a separate sep	R•	Ra.	Re.	Damping and the transfer of th	19,	Fa.	12.
free sport rates	10,41,930	} 1,07,712 }	`22,47 442 }	O - Main Canas & Book 149	7,11,242	1,000	9,10,131
			}	SpIn specianies	1,87,102	3,1-0	1.034
Sal tofnater	3,700	***	40"r	t, British the top Primire	2, 111	1,450	3*.'0
, · 4		j		Tine .	jr 11 474	*	11 1 1,7 2
Receipts from plantation	1,15,134	6716	1,\$1,\$*\$	20-MAINDEMENT AND BUPAIRS,		;	
				il) imbago Const & Pratiger	35,112,500	67,217	; 22,71,742
Items in from other Caral	40,425	13	47,714	elumlikable ettien .	1,01,60	16717	1,75 ers
I t trace.]	4) - Draft a c House	* *.5. 5	170%	**. 1
				रेलास .	* , \$ \$ + c f	14.17	1,55,57
Post of Publisher	3,078	2.3	2,111	m-courternes	1 02	7.0	2123
Fuce	ቆባ _ያ ሴ።ዩ	rst	41 577	And the NI RALL SATABLES OF MENT IN COMMENT OF A COMMENT OF THE PROPERTY OF TH	*******	£7,59+	(Julia)
Mi milaurous and other Becupts	# 492	ent	4#!:	7) -3'-breat D	37,14 *2+	37,231	37,47(2)
Total	30,6N/ 30 ;	2,00 017	14,67,614	\$1.745	\$2,44,013	T2.514	\$2.07,643
			-	l-toois a plant.	•••	(,)	
Cortribution	11,03,605 ^j	***	11,17,6 4	ere — Min verom (*) (*) 18. —proposits (his Poonjohn)	3:,4-	***	3)
Cither Indoor	24,05,111	••	11,0<,114	Total 60 - Rei UNIS of	31/154		
				REALNUE.	" &'era	124	
				7	425	1 52 424	7077.00
. Total	65,13,782	2 00,017	7 1,22,670	tores Leves	71,740	1,55,354	2105/111
Į				TABLE	27,37,901	1,03,354	
Blare of land revenue col- lected in Civil Department	1,61,41,184	1,64,715	1,01,60,213	Indienes C' irons divitable to	3,44,396	10,293	3,74,453
				Total Charges	167 ₉ 01,37.1	1,75,651	98,755.71
1				Ralance, Net Povenua	73,91,427	.5,62,111	75,99,951
I	,			GRAND TOTAL			

⁽⁴⁾ Share of accounts establishment excluded from 1912-13 to 1917-16.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

No 5.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918-19.

		· · · · · · · · · · · · · · · · · · ·			
Particulars.		Pierious,	1018-10,	Total.	
		Rs.	Rs,	Re,	
Revenue-					
	H		-		
Expitalization abalomont of Land Revonue	••	8,536		5,536	
	,		-		
	-			(
save and Pension illowaness	••	3,55,960	10,293	3 66,1 53	
Tutal,		3,64,89 6	10,293	3,74,659	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Musastargarh Inundation Canals Project.

Ro 3,-DEVENUE ACCOUNT POIL AND TO END OF 1915-19.

]4721111.				imposed.	
Receive.	l'eppiones.	1611-10.	Trai	4 ⁹ magoj E G.	Pensings,	10140	Teral,
Prophysical Confession of the State of the S	No.	lie.	16-,	1 - EXPENSIONS AND PROPERTY OF THE	154.	10.	16.
Omep'em' raise	57,50,646	\$, 10,5%	en18,63	" Mare Canar & Bearings	7 13,17	<i>y</i> ,147	7,50721
			;	3 m-11, or upt ramber	1,10,000 #5,71	12,517	1:75.2
Salm of water	2,754	,	2,201	de-Praphace and Pater. Transfer of	1,15,000	:1,751	24554
			:	TOTAL (II)			
Recoipte from įdanšati ins	1,45,610	(,*45	1,50,112	WESTERNS 2. Mais Canal & Brancers	31,12,245	1,77,500	\$2,67,735
V.			:	3 -1'e-rates rantes	2 *2,519	2-111-	32.35
Receipts from other Caral.	7,017	424	(4,165	4 - Branch at House	3112-15		10.50
produce.	', ''		. (7025* 121		1 65,30	37,51111
Fires m	21,412	j.ca i	754-1	The Green of the construction of the construct	. 5,137 . 5,137 . 5,137	, ,	.56.95
	.,,-,,-	•		&	highre:	3 02.679	11.5,07,57
 45				TA, -Beigere	2,1171	22,322 (5	115,517
Marrilantons and other Bricipia.	15,579	230	15,834	Terret	2 2711;	3:194	2012663
				(M = TOOLS AND PLANT	712		**
Total	\$9,45,755	s,r-,313	 40,60,631 	E-Tear rand Marianaria E-Trons as E-Nassant No as Line set P, trains as Confidentias	i sir		
	<u> </u> -	·		Tades a Fraggree Kanterena era Peretare	511		
Contribution	501,579	1	\$100.000 \$100.000	Tures for quarter frage	11.1	1,171	
			•	* REPUBLIS OF BULES!	1,153	· 	101
Chber Labour	54[36 223	,.	21,54,273	right to the second			1
) 	<u> </u>	Str. 5.	\$2,133	-1,010	\$1005
Tetal	71,70,100	l gegar	_*4,1€,45€	Sed in decid	::	1 -11	-14
•			:	Tena	Su Con	1 11 15 15	25 C 1
•		<u> </u>		Cliber latter	21,74,2		24,31,223
Share of land coverns col- lected in the Civil Popurt	1,14,36 20	s,71.778	11,15,080-2	T -A1	68,01,30	3.25 157	1,62,12,634
nest.			1	Teilines cherms dellist to Diseason Arcount as po Animal Solid		19 183	3,49,573
Total Receives ,.	1,40,12,60	ះ រុំ សូវបុរាជា	1,02,58,723	Total clarger	1,03,20,50	7, 3,41,72	1,00 00,210
				Belonce, Not Ils ventia	87,01,75	2,91,749	55,90,*in.
			ł	GRAND TOTAL	1,44,12,64	वी कुल्लीद्वा	1,00,00,121

⁽a) includes R4 5.417 on account if feet for collection of Bevenue.
(b) Share of Account: Establishment excludes from 1912-15 to 1917-18.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Chenab Inundation Canals Project

No. 5 -ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918-19.

Particulars,	Previona,	1018-19.	Total,
•	Rs,	Rs	Ra.
Revenue—			•
Expitalisation abatement of Land Revenue	- 18,3:5	800	18,425
,	·	·	· , ,
Leave and Pension Allowaness	£,11,025	18,81	4,20,01 (,
			,
Total	4,29,380	10,185	4,48 50;

ADMINISTRATIVE ACCOUNTS, FOR THE YEAR 1918-19.

Shahpur Canal Project -Provincial.

So, a.-HPVENUE ACCOUNTS FOR AND TO INDICE 1915-19.

	1210	OS INCOME			}**	TELLAL.	
Куспівін.	Fr.v.,rrs	1,11-13.	Testal	Cziakiara.	Peni sa	191-13.	Total.
Grouplets' sates)!• 0,24,670	R4. 27,444	114. 0,49,444	OSA PROISEITZI (I)	R• •	119.	Re.
	, ,			DIPROVINGENTO, (B),Pfay Panal & Inixi ner, (B), a parriet tables	33,5-1 33,617		00.5*3 13,4*7
Fulna of mater	۴, 0 03	••	4,023	Торы, 11),,	1 *,170	••	67.075
	1			;»,—Maistenance and Bepairs,			
Receipts from Plantations	1,16-]	7,109	grunglate Canal & Aleganiuse, Ang-Thatasertables us	0,03,800 10,510	2227	9,1 % TVS 52,10 (
				Torum M. A. B		11/2/	2 11,223
				o., couper cour,	* * 2	<u> </u>	٠,
Res lets from other Cacal Troduce,	4!4	••	4"11	(ChEstablishment) (ChEstablishment) (ChEstablishment) (ChEstablishment) (ChEstablishment)	e1,209 (*) } } = e1633	1 11.35	3 45 - 35
Water power 4-	60 4		1:1			·	
				Total	4 24 3 46	15 604	4,48325
				(8).—TOOLE A PLANT.			
Pares a	713		713	fit),Microspanions	I,est ,	651	5501
				flatRefaire and Car mice,	}, r r7		
Miscellaneous and other Recorpts.	8,500		7,673	Tistat	8,151	(7)	<u> </u>
				7PROPIT AND LOSE	ç,i ç		¢1¢
Total	9,17,82,,	2132	£ 77,307	Tetal	_ 5]7147	35:00	8,85,017
Total	2 1 14en		1- 93,307	Indirect Clevers d Liable to Revous Account as just Account No. 5.	ស] _{ពី} ព្រះធ	2,736	(7,55)
Staro of Land Revenue e-Rected- in the tivil	2,0%,100	12,3an	2,20,230	Total Chapars	8,50,216	20,010	0,16,263
D-pattment.	•			Balance, Net Revenue	#,75,656	2,505	192,37,2
Toril Prefier	11,65,932	41,634	11,97,816	GRIND TOTAL	11,88,902	41,014	11,02,848

⁽r) Irelujes its, 700 no account of fees and allowaness for collection of Revenue.
(b) Shars of Accounts Establishment excluded from 1912-13 to 1917-14.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1918-19.

Shahpur Canal Project-Provincial.

No. 5 -- ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1918-19.

Particulars.	Previous.	1915-19.	Total.
	Rs.	Rs.	Rg.
Centrale—			
			-
		•	
apitcheation of abatement of Land Revenue.	. 1,003	••	1,093
			-
	,		•
eave and Pension Allowances 🕳 .	- 59,400	2754	62,160
-			
		•	
Total	01,000	2,751	03,553

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-19.

Ravi Inundation Canals Project.

No. 3.-III VENUE ACCOUNT LOB AND TO PRO OF 1915 IP

	1,	(4185T) 				ba m.	
lis en swam	Pietina	191* 19.	Tast	Chapuns,	Praviors .	1918-40.	Trto,
a a same major s	Rs.	Ile,	Re.	W4.7	Sie.) 'e,	Ite.
erupicis fates	1,0:,2:3	**	1,05,275	BPN: PN 1083 AND IMPROVEDENT,			
				The Marie of Angle Anto- lineresism	ξn·,	•~	ניז !
				Total ell		••	. E111
hairs el water	3.7	494	:97	TIYAPPP PRITE YAPP-AR			* ************************************
	- ,			BUTATE AND AND	49.85T		£2127
				lipentrie. (i) Piersthry atre	9,512	٠,,	: : ::::::::::::::::::::::::::::::::::
	:0		25	Total (211 Mary R	(14·s	* 1	5 120
Fire				od ,	-1		1; Z. 1,63
				Tiber inter Birgartisn. Punt. 1	1		;
				71.—Nepies Po 783.—Rein-pp D	1,18,023	••	1,1213
Miscellar abus and ether Recogse,				Tives	174.785		1,50.72
•			į	vi-tone and plans			}
	1		į	TER-AMERICAL TAL	1,720		1,7.0
,	1		_[[.13] RYPAIRS AND CARRIES	x 715	,	919
Total	1,01,0 1	·	1,05 614	Triat .	2 (27		\$ (2)
		·		RITURES OF RU	torn		į to
	1	İ	į	Tryst	2 42,042		, 5,12,012
				Indirect Charges delitable to Revenue Account So. 5			19,171
Shan of Land Resease c lett d in the Uni			1,27,55	Torse Citarizes .	2,61,166	- '	5,61,16
				Balance, Sat Betenue	38,04:		-25,04
Jonal Biejipts	2,33,423		2,33,42	Ghand Toyas, .	2,33,42	: : !	2,83,12

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1018-19.

Ravi Inundation Canals Project.

No 5 .- ACCOUNT OF INDIRECT CHARTES FOR AND TO END OF 1918-19.

Particulara.	Pro-1 upa	1915-19.	Total.	
THE THE TAX SECURITY ASSESSMENT PROPERTY OF THE TAX SECURITY OF TAX SECURITY OF THE TAX SECURITY OF TAX SECURI	Rs	Re.	Ra,	
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		4		
	1			
easa and Persion ultraviers 🐭	10,421	-	10,42	
•				
Total	10,124	114	20,421	